Alnet VDR-S DVR Server

User's Manual

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1. Before Installation

1.1 What's in the Box

Inside your Alnet Systems DVR Card Packaging from Platinum CCTV Surveillance Solutions, you will find the following components:

- DVR Card(s) (D-500 Card Shown Above)
- USB Dongle
- Watch Dog Cable (2-Wire)
- Alnet Systems Program CD
- Installation Sheet w/Serial Number

All of these Items will be required during the installation process.
Do not discard any of these items.

At this Point, we are just checking the Inventory; Do not begin installation until instructed, this will prevent unnecessary difficulties during the installation process.

1.2 Product Specifications

Part #	D-500	D-500 x 2	D-500 x 3	D-500 x 4	D-700	D-700 x 2	D-600
Version	PRO4	PRO8	PRO12	PRO16	RT4	RT8	RT16
Video Inputs	4	8	12	16	4	8	16
FPS (NTSC) @ 640x480	30	60	90	120	120	240	240
Audio Inputs*	1	2	3	4	4	8	8/16
Digital I/O**	4/4	8/8	12/12	16/16	4/4	8/8	8/8

***Audio Requires Optional Expansion Module(s)**
****Digital I/O Requires Optional Expansion Modules**

1.3 Product Features

The Alnet VDR-S Pro DVR System is the latest development in Digital CCTV Surveillance Technology. The system is specifically designed for video image recording and remote viewing. VDR-S PRO system is available in four different versions: 4, 8, 12 and 16 channels. The 4, 8 and 12 channel versions are upgradeable to 16 channels by adding additional D-500 DVR Cards from Platinum CCTV Surveillance Solutions. Video inputs are in groups of 4 on each video capture card. A single video capture card can process from 30 (D-500) to 120 (D-700) frames per second in NTSC (US standard Video format). Picture Parameters (key frames, color, saturation, quality, etc.) can be adjusted manually by the user with individual settings for each camera.

Each system includes the following features:

- Complex System Scheduling
- Advanced Motion Detection, Continuous and Alarm Recording
- PTZ Control* w/Keyboard, Mouse and Joystick
- Email Alerts w/JPEG image files
- Auto Alarm when camera signal lost
- Unlimited User IDs with adjustable settings for viewing and remote access
- Remote Monitoring & Playback via PC, Laptop or PDA
- Remote Monitoring via Java or Symbian enabled cell-phones
- Smart-Search – Allows you to quickly scan through recorded video
- MPEG-4 / D-JPEG Video Recording Codecs
- High-Resolution Recording (up to 640x480)
- Dynamic IP Support (works with all Broad-band internet connections)
- Remote Client Software, Internet Explorer, or HTML embedded PC remote-viewing
- Watch-Dog Support to reboot PC if it hangs
- Preview mode – watch cameras while still picking up emails, browsing the internet
- Digital Watermark for security

***PTZ Control Requires PTZ Cameras & DI/DO expansion card**

1.4 PC Requirements

Single D-500 Card Minimum Specifications:

- Intel Processor PIII 1 Ghz
- Intel Chipset motherboard*
- 256 MB RAM
- HDD minimum 20 GB**
- Network Adapter or Modem
- Windows 2000/XP/Server 2003
- 64 MB AGP/PCIe Style Video Card*** (Recommended)

Multiple D-500 Card Minimum Specifications:

- Intel Processor Celeron 1.3 Ghz +
- Intel Chipset motherboard*
- 256 MB RAM
- HDD minimum 20 GB**
- Network Adapter or Modem
- Windows 2000/XP/Server 2003
- 64 MB AGP/PCIe Style Video Card*** (Recommended)

Real-Time Card Recommended Specifications:

- Intel Pentium IV Processor 2.0 Ghz +
- Intel Chipset Motherboard*
- 512 MB RAM
- HDD 80 GB +**
- Network Adapter or Modem
- Windows 2000/XP/Server 2003
- 64 MB AGP/PCIe Style Video Card***

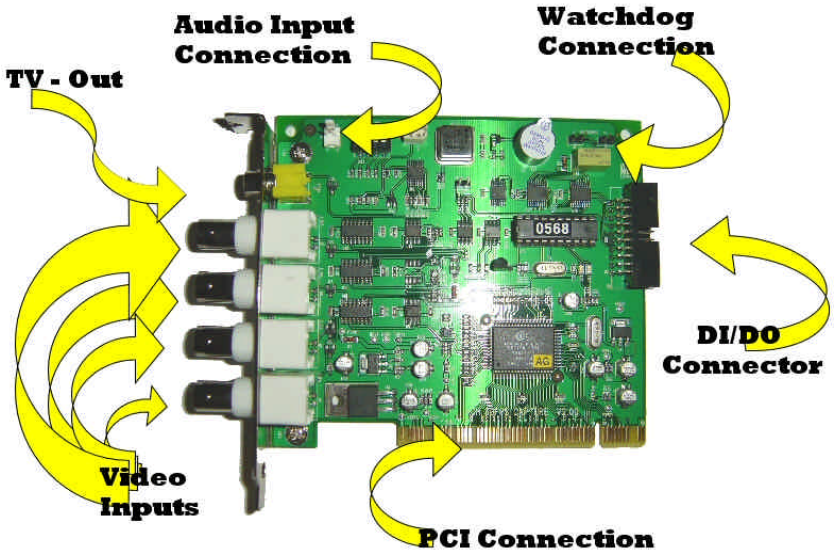
*** VDR-S Pro software works with VIA or SIS motherboards, but performance may be decreased slightly.**
**** Larger Hard Drive Size = Longer Recording Time**
*****VDR-S Pro System will work with Onboard Style video cards in Software Rendering mode.**

1.5 Internet Connection Requirements

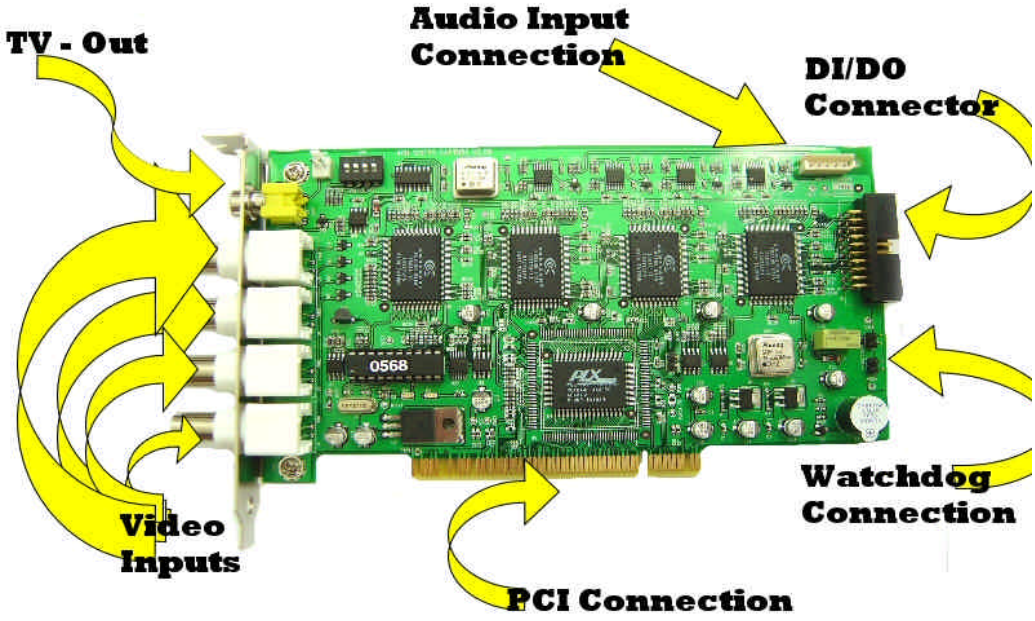
The Alnet VDR-S PRO DVR System does not require an internet connection for normal recording/playback functionality. However, an internet connection will be required for remote viewing capabilities.

While the Alnet VDR-S PRO software will operate with virtually any internet connection for remote viewing (Modem, Cable, DSL, Satellite, etc.), the remote viewing quality and frame rate will be determined by the speed of your connection. We recommend Broadband style (Cable, DSL, 2-Way Satellite) internet connections with faster upload speeds for maximum performance of Remote Viewing.

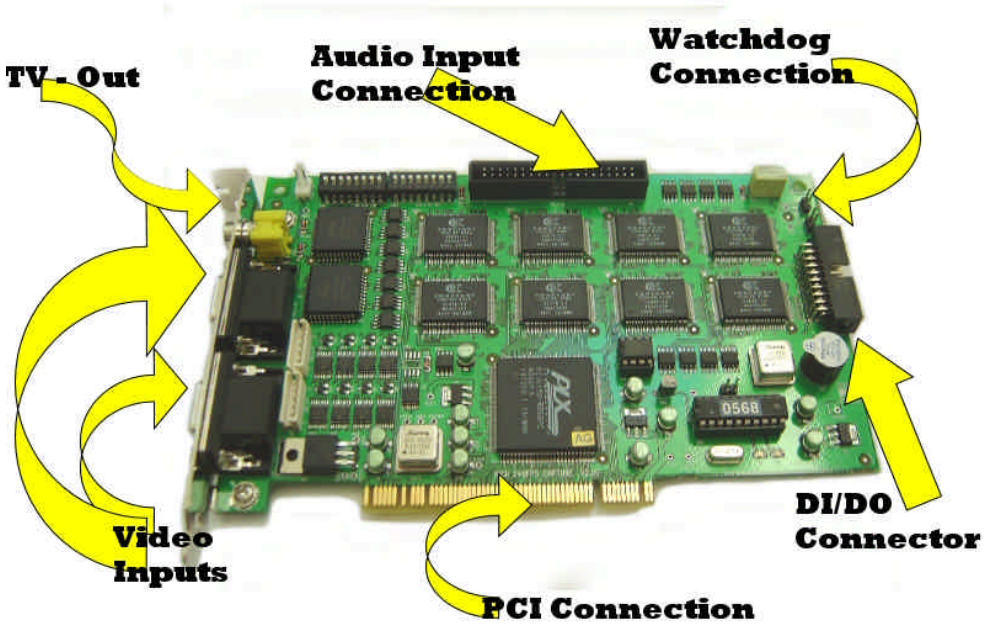
1.6 Hardware



D-500 (PRO-4 30 fps) Card



D-700 (RT-4 120 fps) Card

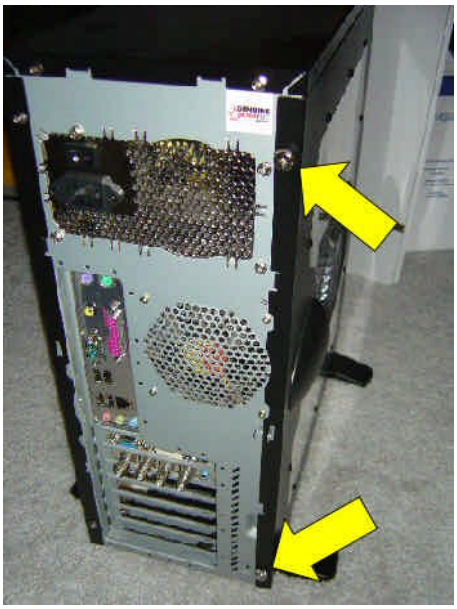


D-600 (RT-16 240 fps) Card

2. Hardware Installation

2. 1 DVR Card Installation

2.1.1 – Remove the Side-Cover of your PC

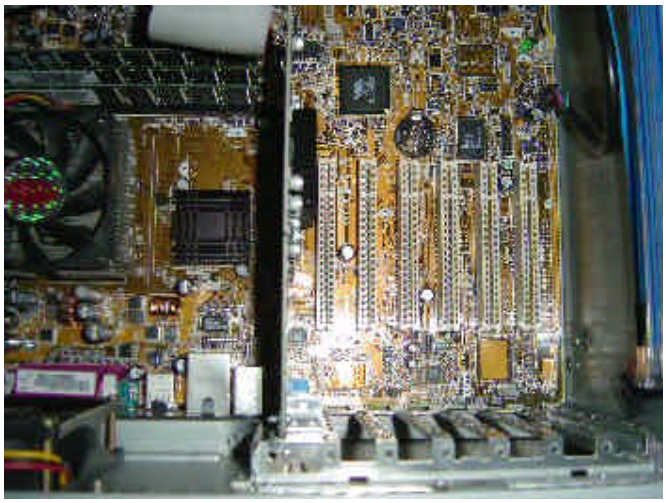


Most PCs have several screws holding the case together in the back of the PC. Remove these screws, and slide off the side of the PC Case.

Note: Your case design may differ. See the documentation from your PC for disassembly instructions.

After removing the side of the PC Case, turn computer on its side.

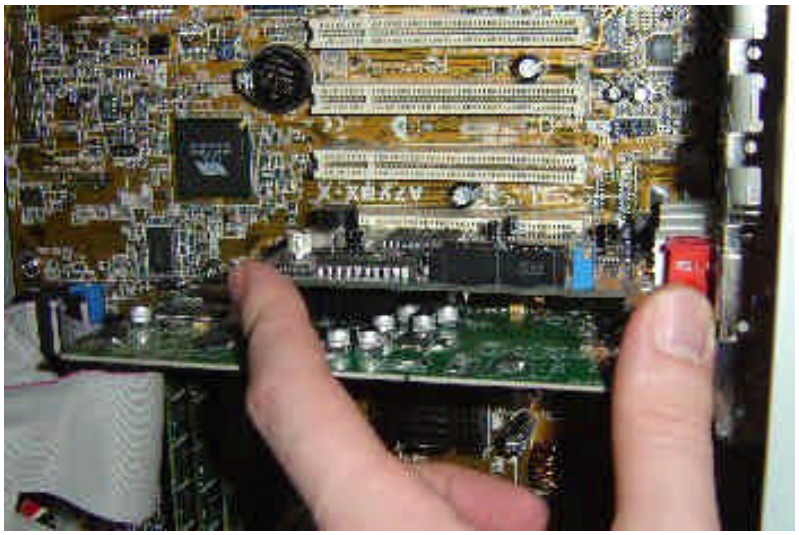
2.1.2 – Find an available PCI Slot on motherboard



The PCI Card Slots are off-white in color, and are lined up with openings in the back of your PC case.

Note: This PC has 6 free PCI Slots and 1 AGP slot that is occupied by an AGP video Card (AGP Video Card Recommended but not required for Alnet DVR Software)

2.1.3 – Gently push DVR Card into PCI Slot



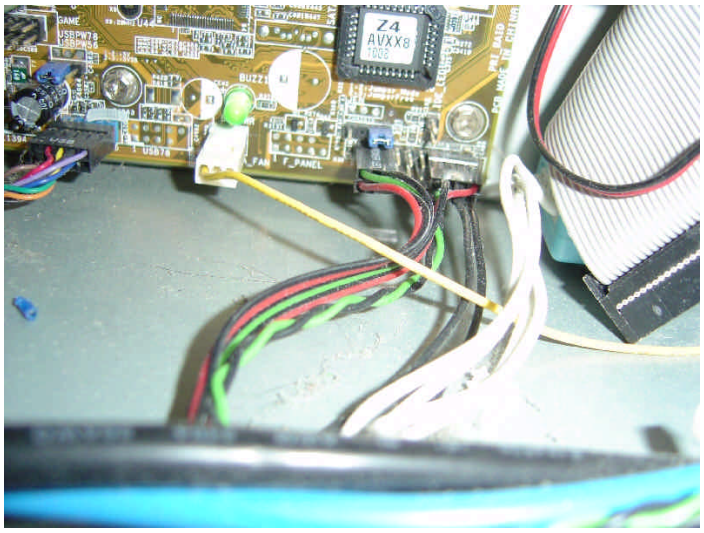
Carefully line up the Alnet PCI DVR Card with an available PCI slot, then firmly seat the card into the slot. Secure the card to the back of the case.

2. 2 Watchdog Connection (Optional)

2.2.1 Connecting the Watchdog Cables

The Alnet VDR-S System comes with built-in watchdog support, which will reboot your PC if it hangs or locks during system operation. Before you can enable the Watchdog function, you will first need to connect the watchdog reset cables.

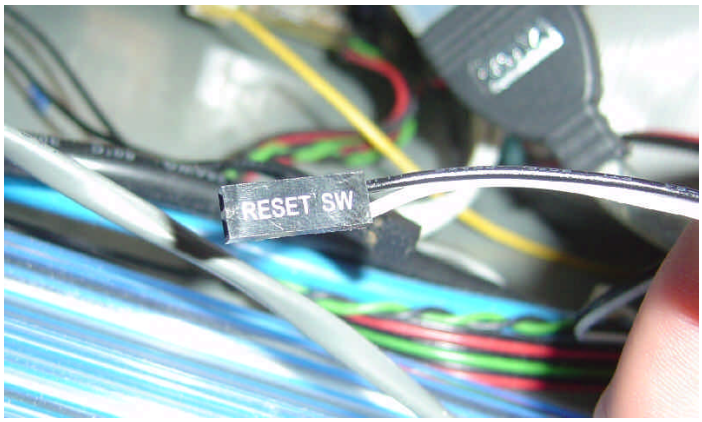
Watchdog Reset Cable included in the Alnet DVR Card Package. This cable will connect between the DVR Card Watchdog pins and the Reset Pins on the Motherboard.

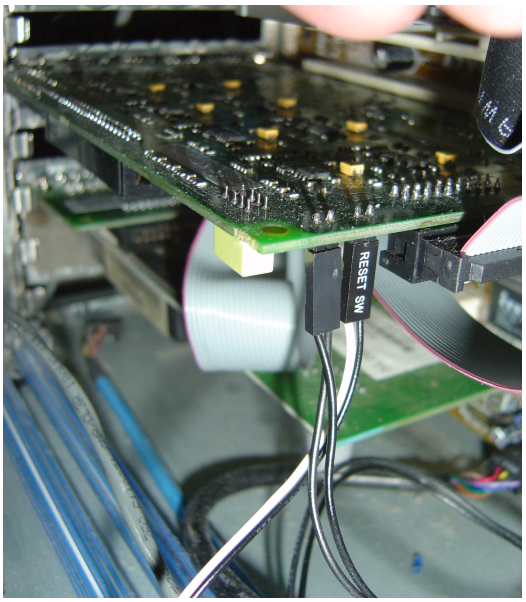


Locate the Reset wires leading to your motherboard from the front of your PC case. This is a small 2-pin wire that is generally labeled "**Reset Sw**" on the motherboard or on the connector that plugs into the motherboard. (Consult PC or Motherboard manual for specific location)

Common labeling for most PC manufacturer's reset cable is shown here. This cable should be connected to the watchdog pins on the DVR Card.

Note: Not all PCs have a reset button, therefore may not have a Reset SW Cable



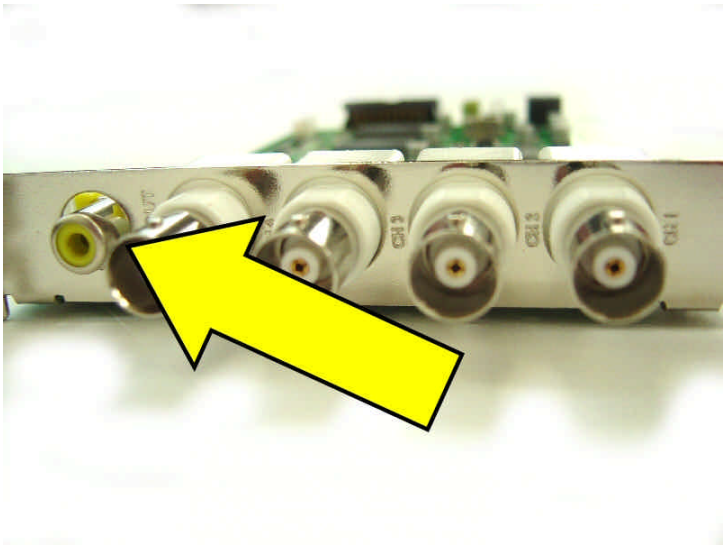


Completed Watchdog connections to DVR Card

2. 3 TV-Output Connection (Optional)

2.3.1 Locating the TV-Output connector on your DVR Card

Each Alnet Systems DVR Card has a TV-Output built-in to the DVR Card. This TV-Output will allow you to display the selected camera in REAL TIME onto a television or monitor with RCA input. To cycle through cameras on the TV-Output, configure the Dynamic Layouts later in this manual.

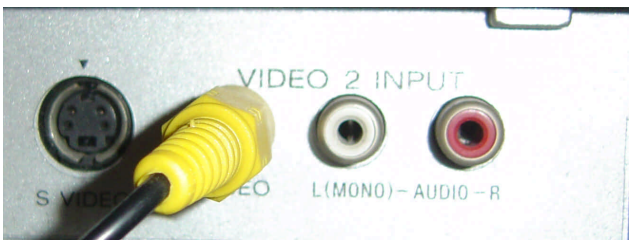


The TV output can be found on the back of the DVR Card, directly next to the Video Input connectors. The TV output is an RCA-style connector that is Yellow in color.

2.3.2 Connecting the TV-Output to your TV

Use a standard RCA style cable to connect from the TV-Out terminal to the Television Line-In RCA connectors.

Find an available video input on your TV like this one, which will accept an RCA video input

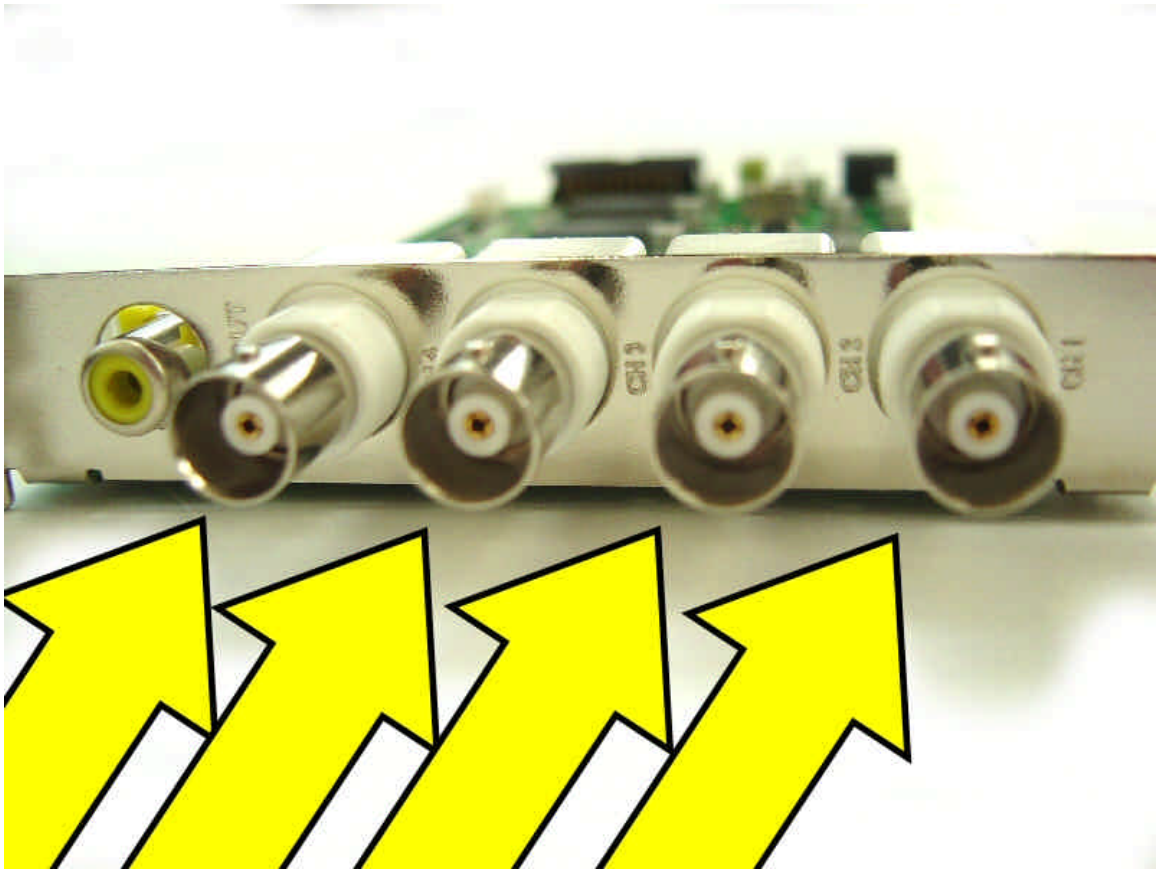


Connect the RCA Cable from the TV-Output on the DVR Card to the Video input on the Television

2. 4 Video Input Connections

2.4.1 Finding the Video Inputs

On the Alnet VDR-S DVR Card, the video inputs are located directly on the back of the card next to the TV-Output terminal. Next to each Video Input BNC terminal, you will find a label for the channel number (i.e. CH1, CH2, CH3, CH4). The 16-Channel Cards, such as the D-600, have different style extension cables which have BNC terminals on their ends.



2.4.2 Connecting a BNC Terminal

CCTV Cameras and DVR Cards generally employ BNC style connectors. These connectors create a good positive connection when installed properly. However, if not connected properly, they can be a source of distortion or disconnection of your video signal.

Take the metal end of the cable and press it firmly onto the BNC Video port on the back of the DVR Card.

Once you have pushed the connector together, turn the outside collar of the connector approximately 90 Degrees clockwise to lock it in place.

This connector is fully seated

2.4.3 Adapting to an RCA Cable

Many installations may use a standard RCA-Style cable. In order to use an RCA style cable with the Alnet Systems DVR Card Inputs, you will need to use a BNC to RCA adapter. This type of adapter will also be needed if using a Budget-style CCTV Camera with a BNC type Cable.

A BNC to RCA adapter is shown here being used with a Camera that has a BNC output, to adapt it to an RCA style cable.

With an RCA style cable, a second adapter would be used between the cable and the DVR Card.

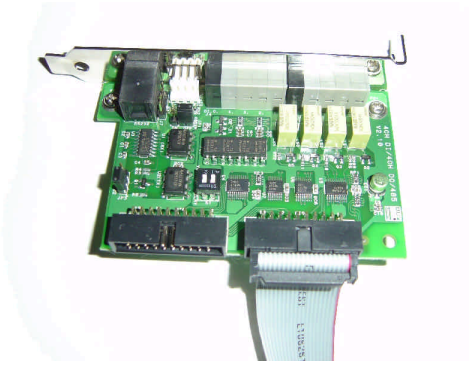
2.4.4 Ensuring good connection

Always test your connections to ensure that cables are fully seated. If the Alnet System is displaying a blue screen instead of your camera's image, then the most likely cause is incomplete cable connection. Try to wiggle your cables and adapters to see if the camera's image appears. See the Troubleshooting Section for more details.

2. 5 DI/DO Connection (Optional Component)

2.5.1 Connecting DI/DO Card to DVR Card

The first connection for the DI/DO card is to connect the ribbon cable from the DI/DO Card to the DVR Card.

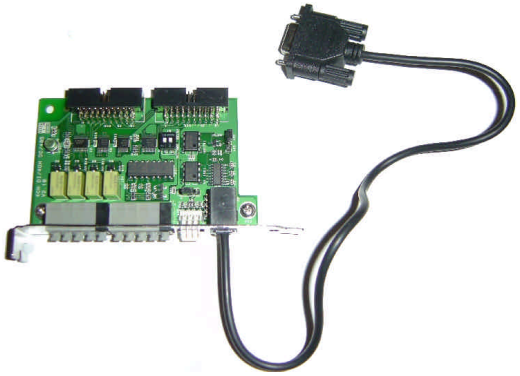


Connection of Ribbon Cable to the DI/DO Card

Connection of Ribbon Cable to the DVR Card

2.5.2 Connecting DI/DO Card to COM 1 Port (PTZ Only)

If the Digital Input/Output Accessory Card (Optional) is to be connected to a PTZ camera, the supplied RS-232 Cable must be connected from the DI/DO Card to the COM 1 Port on the DVR PC via Serial Cable.

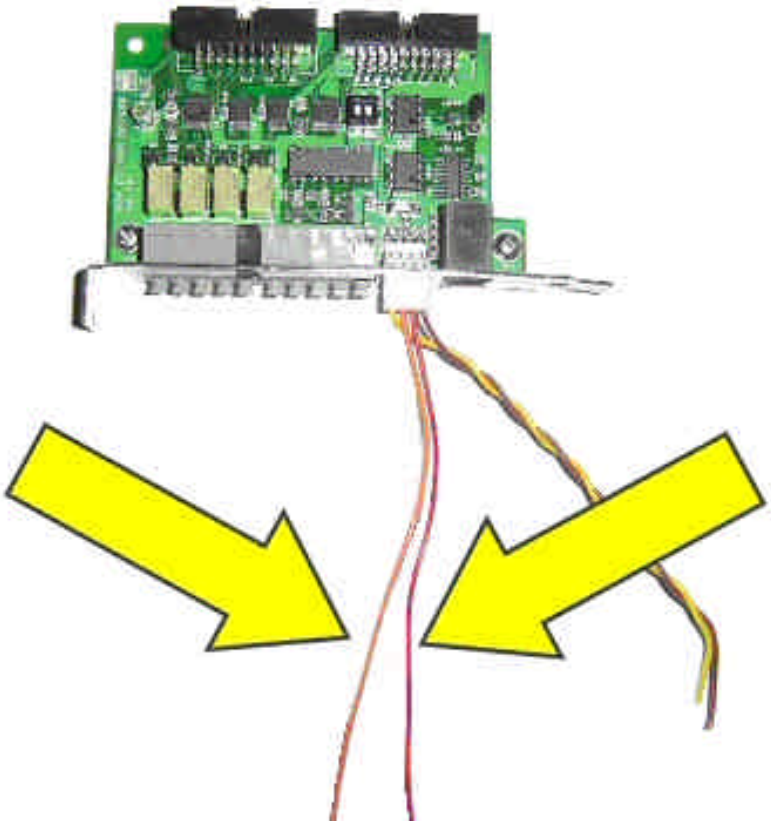


RS-232 Cable connected to the RS-232 port on the DI/DO card.

The Serial end of this cable will need to be plugged in to the Serial COM1 port on the back of the PC

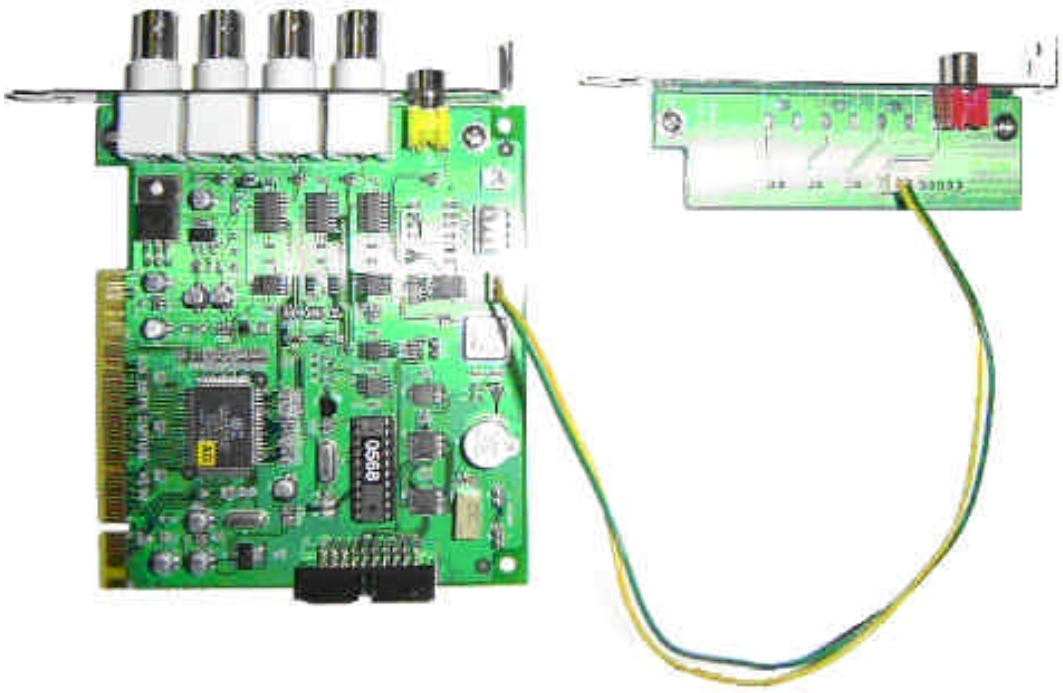
2.5.3 Connecting RS-485 to PTZ Cameras (PTZ Only)

For PTZ applications, the center wires (Orange and Red) of the RS-485 connector must be connected from the DI/DO expansion card to the RS-485 control wires of the PTZ Camera. Note polarity of RS-485 cables when connecting.



2. 6 Audio Connection (Optional Component)

The optional Audio Expansion card connects to the Alnet VDR-S DVR Card with a single 2 wire connector. Simply mount the Audio card to the back of your PC case, then connect with the supplied 2-wire cable to the DVR Card as shown.



3. Software Installation

3.1 Software Installation

Once the hardware has been properly installed and connected, reboot the PC. Once the PC has finished loading windows, the Found New Hardware Wizard will open.

3.1.1 – Ignore the Found New Hardware Wizard

Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
This wizard helps you install software for:
AS100 Video AL-NET
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

The Alnet System has not yet installed its drivers for the DVR Card, so we will not continue the "Find new Hardware Wizard" at this time. Don't close the window down, just move it off to the side.

IGNORE THIS WINDOW
MOVE it to the Side for now!

We will come back to the "Found New Hardware Wizard"
In Section 3.2 after software installation has completed

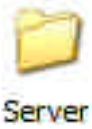
3.1.2 – Install Alnet VDR-S Server Software

Insert the Alnet Systems CD into the CD-Drive

Double-Click on "**My Computer**"

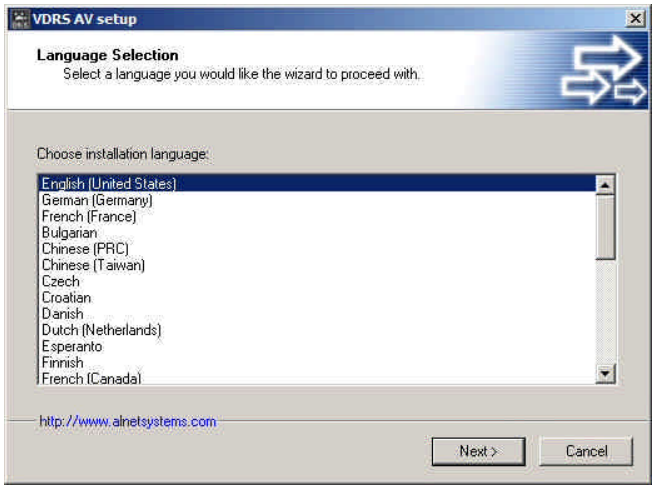
Double-Click on the "**CD-Drive**"

Double-Click on the "**Server**" Folder



Double-Click on the "**Aps**" Folder

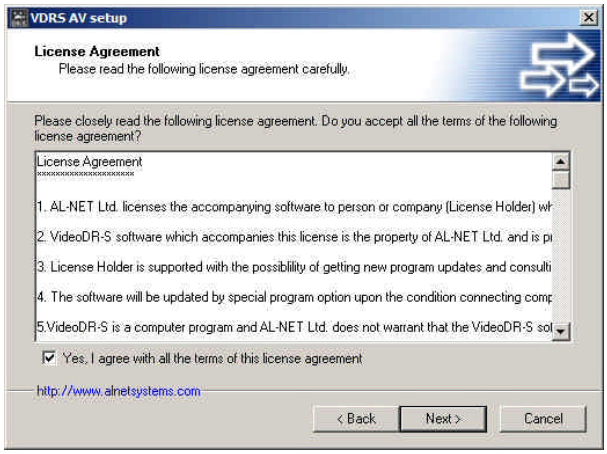
Double-Click on the "**VDRS_AV_Install**" file to begin software installation



Select Your Language then press "**Next**"

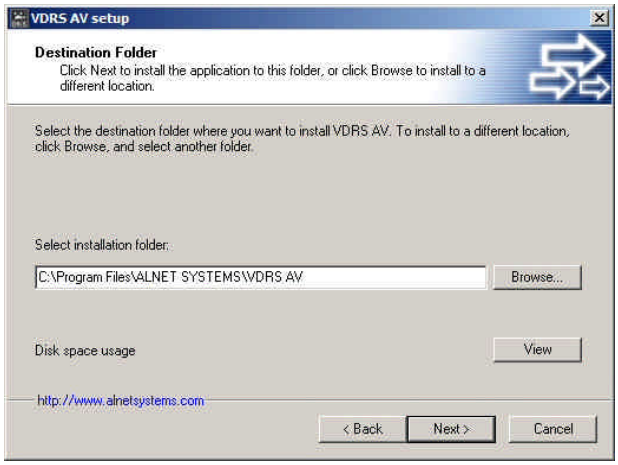
Click "**Next >**" to begin

VDRS AV setup
Welcome to the Installation Wizard
Welcome to the VDRS AV Setup program. This program will install VDRS AV on your computer.
It is strongly recommended that you exit all Windows programs before running this Setup program. Click Cancel to quit Setup and close any programs you have running. Click Next to continue with the Setup program.
WARNING: This program is protected by copyright law and international treaties.
Unauthorized reproduction or distribution of this program, or any portion of it, may result in severe civil and criminal penalties, and will be prosecuted to the maximum extent possible under law.
Installation Wizard
< Back
Next >
Cancel

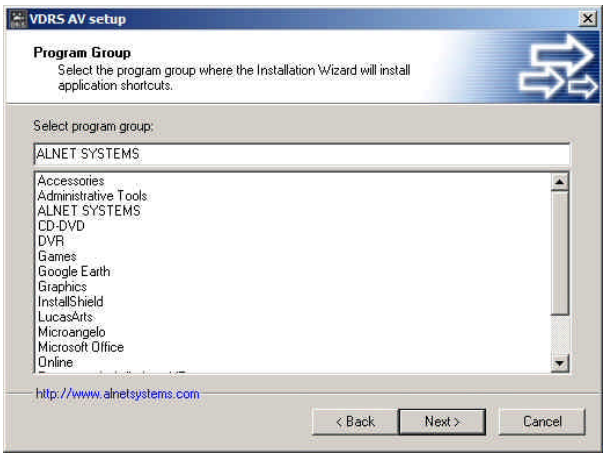

VDRS AV setup
License Agreement
Please read the following license agreement carefully.
Please closely read the following license agreement. Do you accept all the terms of the following license agreement?
License Agreement
1. AL-NET Ltd. licenses the accompanying software to person or company (License Holder) wh
2. VideoDR-S software which accompanies this license is the property of AL-NET Ltd. and is pr
3. License Holder is supported with the possibility of getting new program updates and consulti
4. The software will be updated by special program option upon the condition connecting comp
5.VideoDR-S is a computer program and AL-NET Ltd. does not warrant that the VideoDR-S sol
Yes, I agree with all the terms of this license agreement
http://www.alnetsystems.com
< Back
Next >
Cancel

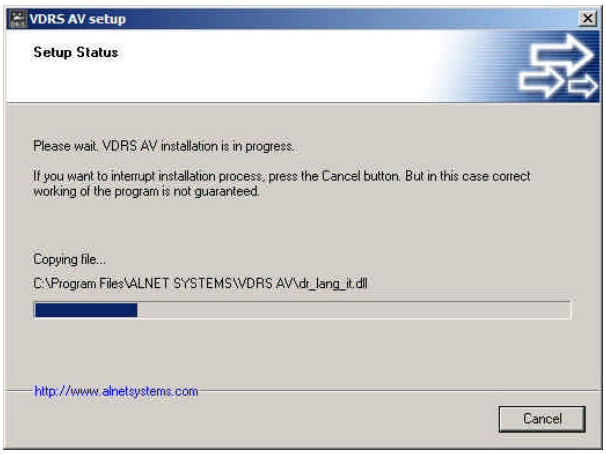
On the License Agreement, Read, then Click "**I Agree**" then Press "**Next"** 2 Times

Select Destination Folder then Press "**Next >**" to continue


VDRS AV setup
Destination Folder
Click Next to install the application to this folder, or click Browse to install to a different location.
Select the destination folder where you want to install VDRS AV. To install to a different location, click Browse, and select another folder.
Select installation folder:
C:\Program Files\ALNET SYSTEMS\VDRS AV
Browse...
Disk space usage
View
http://www.alnetsystems.com
< Back
Next >
Cancel

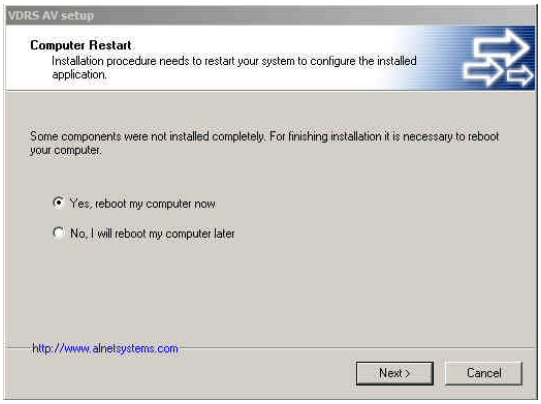
Select Program Group in Start Menu, or click "**Next >**" to begin install




VDRS AV setup
Setup Status
Please wait. VDRS AV installation is in progress.
If you want to interrupt installation process, press the Cancel button. But in this case correct working of the program is not guaranteed.
Copying file...
C:\Program Files\ALNET SYSTEMS\VDRS AV\dr_lang_it.dll
http://www.alnetsystems.com
Cancel

Wait while VDR-S Installation begins

DO NOT Reboot at this time! Select "**No I will reboot my computer later**" then press "**Next >**" to close the VDR-S Install window


VDRS AV setup
Computer Restart
Installation procedure needs to restart your system to configure the installed application.
Some components were not installed completely. For finishing installation it is necessary to reboot your computer.
Yes, reboot my computer now
No, I will reboot my computer later
http://www.alnetsystems.com
Next >
Cancel

Move on to Section 3.2 for Driver Installation

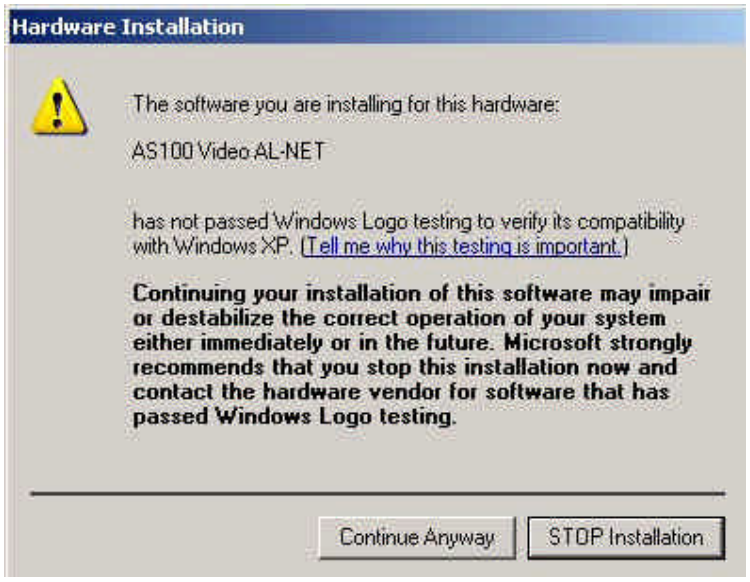
3.2 Driver Installation

After completing the Software installation, we will now return to the Found New Hardware Wizard to complete the driver installation.

Return to the "**Found New Hardware Wizard**" Window that we set aside earlier

Select "**Install the software automatically**"

Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
This wizard helps you install software for:
AS100 Video AL-NET
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel


Hardware Installation
The software you are installing for this hardware:
AS100 Video AL-NET
has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.)
Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
Continue Anyway
STOP Installation

Windows XP users: You will receive a "**Hardware Installation Warning**"

Select "Continue Anyway"!

Repeat steps for driver install until all drivers have been successfully installed.

Consult the chart below for number of Audio and Video Drivers that should install for Each DVR Card

DVR System	Audio Drivers	Video Drivers
PRO-4 (D-500)	1	1
PRO-8 (D-500 x 2)	2	2
PRO-12 (D-500 x 3)	3	3
PRO-16 (D-500 x 4)	4	4
RT-16 (D-600 x 1)	8	8
RT-4 (D-700 x 1)	4	4
RT-8 (D-700 x 2)	8	8

Plug USB Dongle into a USB Port on your PC

Windows will automatically find and install drivers for the USB Dongle

Now restart your PC

Once it reboots the Alnet VDR-S Software will open.

Move on to Section 4 for Initial Software Configuration

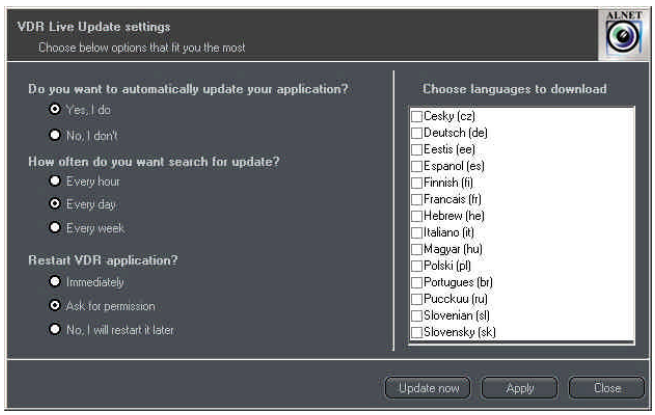
4. VDR-S Server Software Configuration

4. 1 Initial Software Setup

The first time the VDR-S software from Alnet runs, it will need to collect some information from you in order to properly configure the software. Please complete the Initial Software Setup exactly as described to prevent unnecessary problems.

4.1.1 Auto-Update Configuration

On the first run of the VDR-S AV software, an Auto-Update Configuration window will appear.



Select "**Yes, I do**" to enable automatic updating of the VDR-S application

Select the time frame for auto-updating

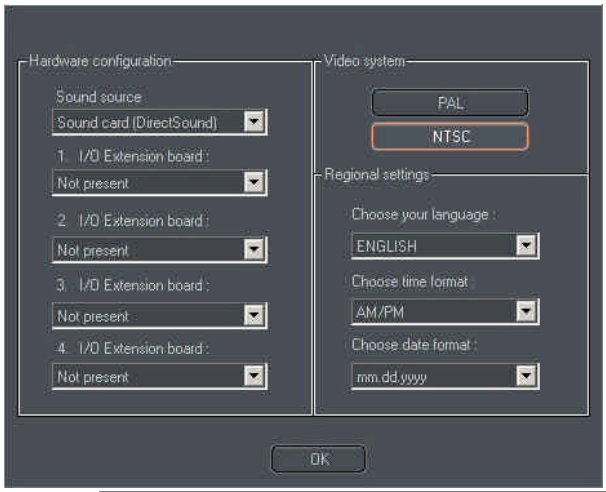
Select "**Ask for permission**" for rebooting

Click "**Apply**" then click "**Close**"

Note: If your computer is not currently connected to the internet, you will receive an error message stating that the server cannot be found. Close the warning message and ignore. The Update selections will appear once your PC has been connected to the internet.

4.1.2 Initial Hardware Setup

Also on the initial run of the software, the Hardware Configuration will open to allow for the configuration of the system. Be very careful to answer these questions correctly, to prevent software problems later.



Sound Source - Select "**Sound card (DirectSound)"** unless an Alnet audio extension card will be used.

I/O Extension - Select I/O Extension boards if purchased with the Alnet System

Video System - Select "NTSC" for U.S. Video Format

Regional Settings – Choose Language and Time/Date Format

Click "OK" to continue

4.1.3 Initial User Account Setup

After configuring the initial hardware settings, you will be asked to enter a User Name and Password (two times) to set up an Initial Administrator Account.

Enter a User Name
Note: The Login name is CaSe SeNsItIvE as well as the password

Enter a Password

ReEnter Password

Note: The User account that is set-up in this step, will be a FULL administrative account with FULL RIGHTS to all cameras. Do not loose or give out this password to untrusted employees.

4.1.4 License Number Registration

To help prevent unauthorized installation of the Alnet Software, the software requires a License number that is matched to the USB Dongle that was included with your system.

You can find the License number on the Information Sheet that was provided with your Alnet VDR-S DVR Card.

The Serial Number will match the number on your USB Dongle,
The License number need to be entered to authorize the software.

4. 2 Main Camera Settings

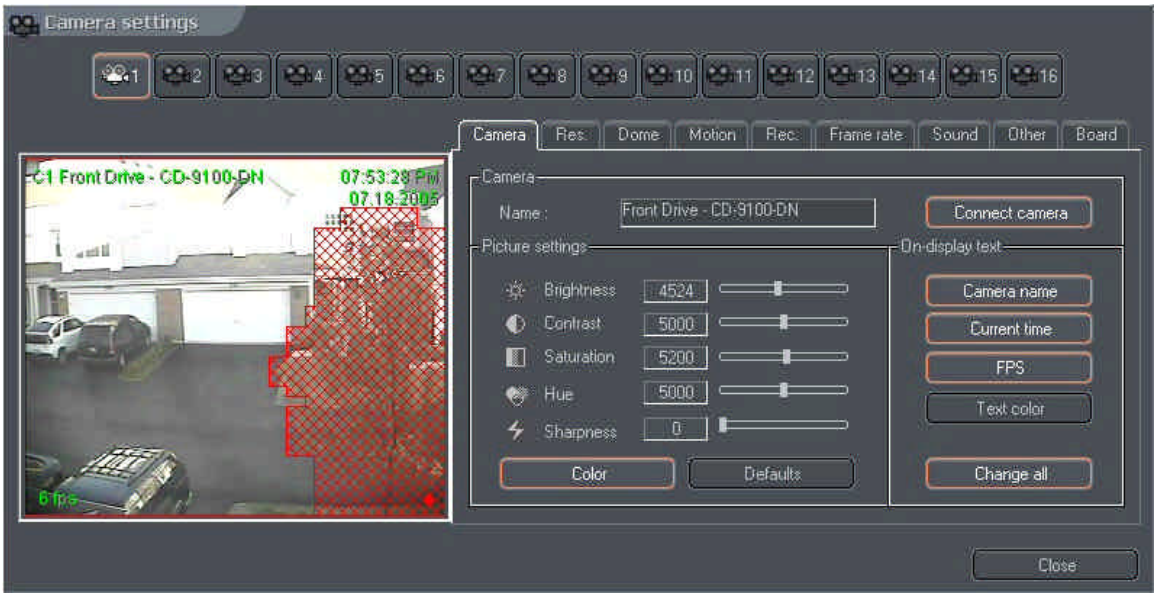
Some of the most important configuration settings you will make on your Alnet VDR-S System, are the Camera Settings. Available camera settings include brightness, contrast, resolution, motion detection, audio recording, recording formats, display text, Dome (PTZ) settings and framerate among others.

4.2.1 Entering Camera Settings

Main Viewer Screen > Click the "Camera" icon

4.2.2 Picture Settings ("Camera" Tab)

The Camera tab in the Camera Settings menu, will allow you to connect cameras, name your cameras, control picture brightness, contrast, saturation, hue and sharpness as well as display text. During the initial start-up, the main viewport will show any connected cameras in Black and White. The Camera Tab will also allow you to change the Cameras to color.

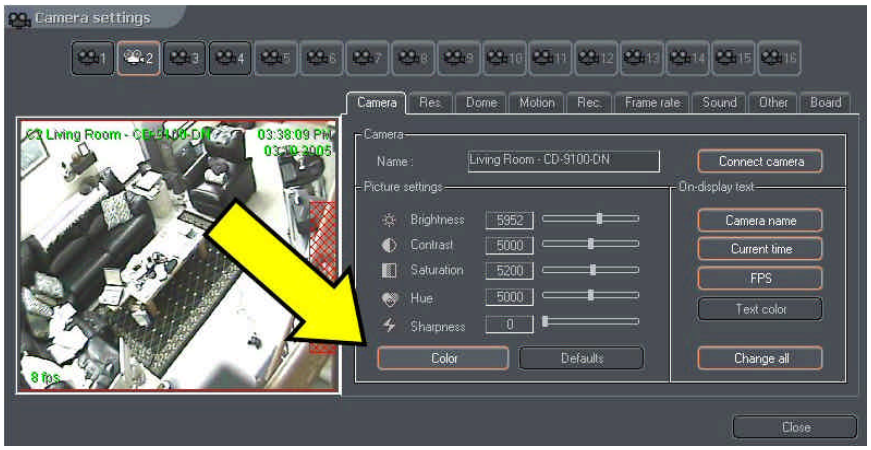


The "**Connect camera**" button controls whether or not a camera is active.

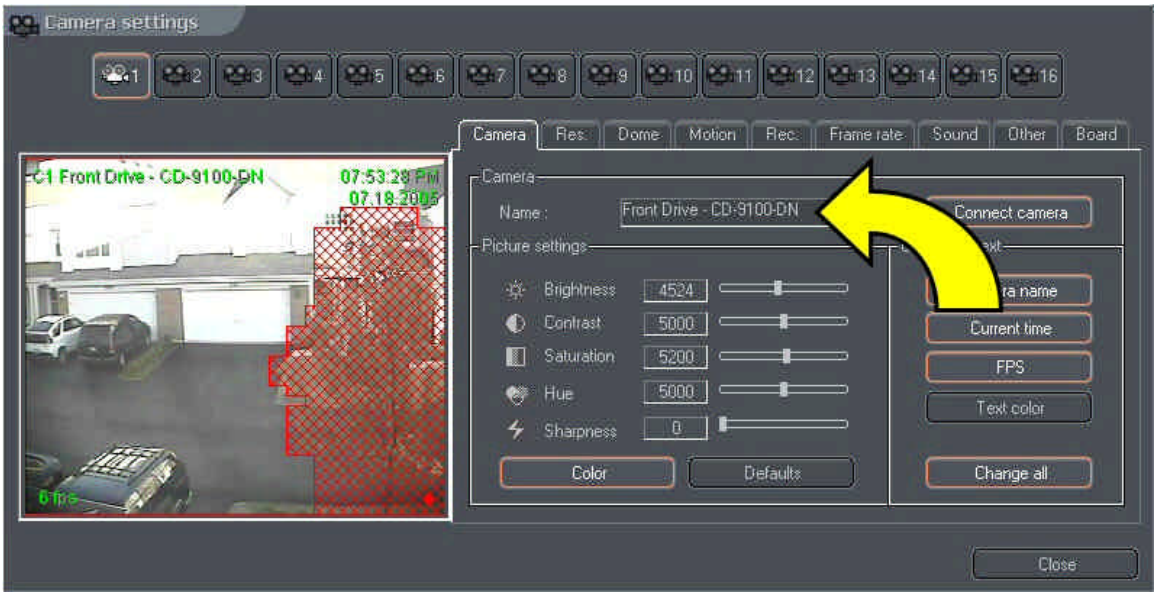
Camera is Active and will display and record

Camera is Disconnected and will not display or record

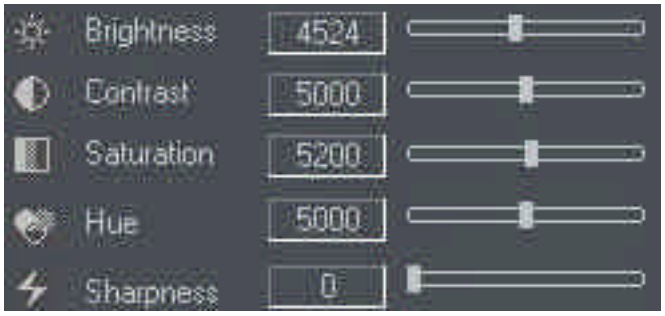
Note: In VDR-S, when buttons are highlighted in Red-Orange, the button is active.



Click the Color Button shown below to set the camera to Color Mode.



Type a Name for the camera in the "Name" box. This is the camera name that can be displayed on the camera viewport, and will be used for selecting a camera remotely.



Adjust Picture Settings (Brightness, Contrast, Saturation, Hue and Sharpness) to suit your installation

You can reset the adjustments to default by pressing the "Default" button.

On-Display Text - Select the text to be displayed across the screen in the main viewport

Camera Name – Displays the Camera name across the top left of the camera view

Current Time – Displays the current time across the top right of the camera view

FPS – Displays the current frame rate (Frames Per Second)

Text Color – Changes the color of all of the Display text

Change All – Applies current settings to all cameras

4.2.3 Camera Resolution Settings ("Res" Tab)

Camera Settings Menu > Click the "Res" tab

Select the Display/Record Resolution for the cameras

320 x 240 – Standard Resolution for most DVR Systems

640 x 240 – Medium Resolution Good compromise between picture resolution and recording size.

640 x 480 – High Resolution – The Best quality Video Recording, takes up the most space on the hard drive.

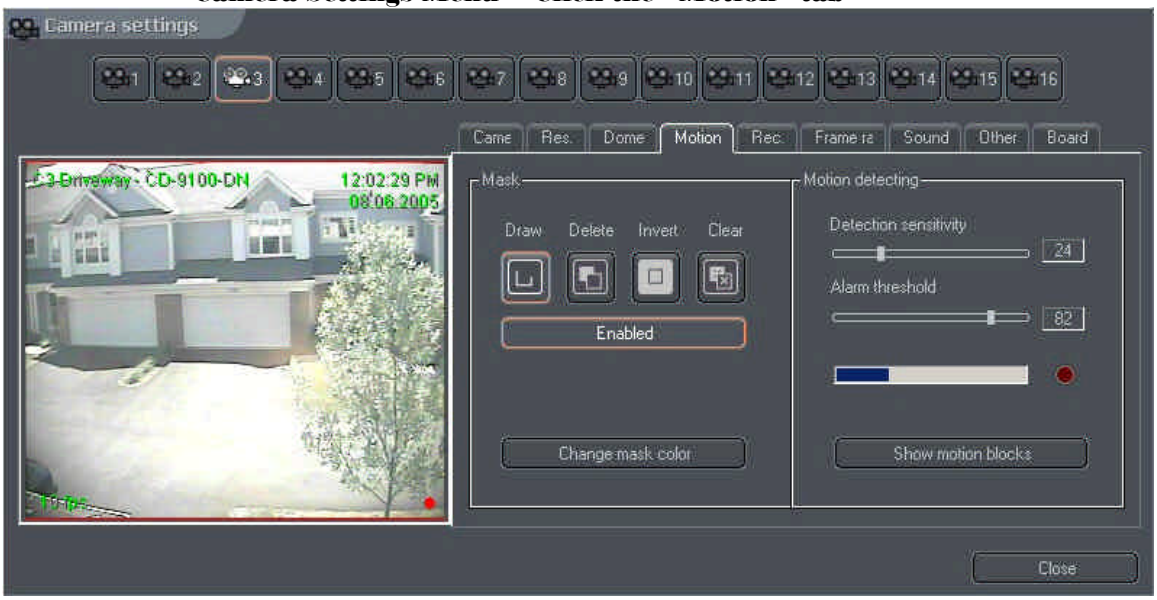
Apply to all – This will apply the new resolution settings to all cameras.

Note: Any Changes to the resolution of the cameras will not apply until the software is shutdown and restarted.

4.2.4 Camera Motion Detection Settings ("Motion" Tab)

Motion Detection allows cameras to record only when motion is occurring on-screen. Most DVR Systems have very limited motion detection configuration settings, however the Alnet Systems VDR-S software offers highly advanced and configurable motion detection settings, to allow you to custom-tailor your system, so that it will record only the important motion.

Camera Settings Menu > Click the "Motion" tab



Camera Motion Indicator

The Camera motion indicator will show how much motion is currently detected, and whether or not the motion alert is currently active.

Motion alert is currently not triggered

Motion alert is currently triggered

The Indicator bar shows the amount of motion that is presently detected. If the amount of motion is higher than the Alarm Threshold setting, then the Red light will turn on and camera will record if set to motion detection recording or trigger outputs if configured.

Camera Detection Sensitivity

The Camera Detection Sensitivity setting will allow you to adjust the sensitivity of the software motion detection. The Detection sensitivity setting determines how many pixels have to change before the group of pixels is considered to be motion. A setting with a lower number is less sensitive than a higher number.

Detection Sensitivity setting around 24 is usually sufficient sensitivity for most indoor or outdoor environments

Alarm Threshold

The Alarm threshold setting determines how many groups of pixels (dots) must register motion before motion recording is activated. When the Indicator reads higher than the Threshold, the alarm light next to the indicator turns red.

Alarm Threshold setting can be adjusted based on what the motion detection indicator reads

Mask Area

Masking allows you to eliminate the motion detection in certain areas of the camera's view. Any areas of the camera viewport in the settings window that are masked with a cross-hatch pattern will not be considered for motion detection.

Draw – Click this button to draw a masked area on the camera viewport by clicking and dragging

Delete – Click this button to remove masked areas on the camera viewport by clicking and dragging on the viewport

Invert – Clicking this button will cause any masked areas to become unmasked and any unmasked areas to be masked

Clear – This will clear all masked areas

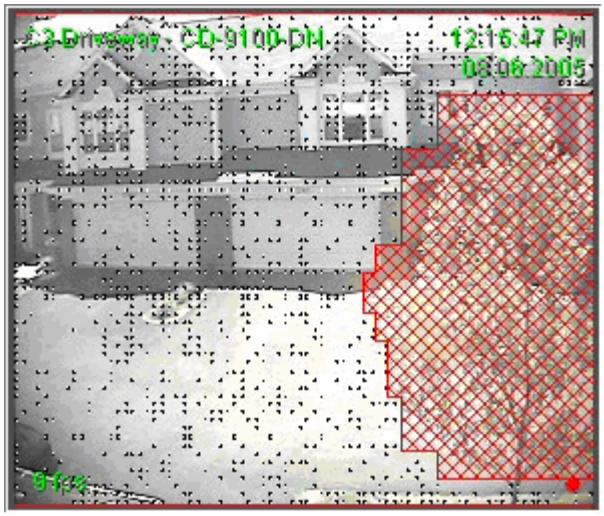
Enabled – This will enable Masking. This button must be selected to view the masked area and to enable masking

Change mask color – This button will change the display color of the masked area in the Camera Settings viewport.

Example of a Camera Mask, this mask has been set to prevent the tree blowing in the wind from setting off motion detection.

Show motion blocks

Clicking "Show motion blocks" will display white boxes on the Camera Settings viewport where motion is detected.



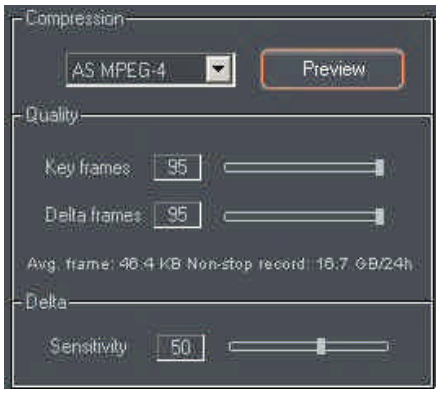
Once the Show motion blocks button has been selected, the viewport will show any blocks where motion is currently detected.

Use a combination of the Mask, Sensitivity and Threshold settings to custom tailor the Motion Detection of your Alnet Camera system to the needs of your particular area. This is one of the great benefits of Alnet Systems over most other DVR Cards/Software. No other software gives you this level of customization abilities.

4.2.5 Camera Recording Settings ("Rec"Tab)

The Camera recording settings will allow you to configure the recording options for each camera, including Recording Codec (MPEG-4 or D-JPEG), foreground quality, background quality and schedule recording over-rides.

Camera Settings Menu > Click the "Rec" tab



Compression Settings - Select MPEG-4 for best quality compression or DJPEG for greatest compression rate

"**Preview**" will show the average frame size and the approximate space that would be used on the hard drive with continuous 24 hour recording.

Key Frames - adjust the quality of the background of the image (non-moving areas of the picture)

Delta Frames - adjust the quality of the foreground of the image (moving areas of the picture)

Delta Sensitivity – This setting will adjust the sensitivity for separation of moving from non-moving areas. This setting allows you to further adjust the compression when Key and Delta Frames are adjusted separately.

"**Disabled**" - NORMAL SCHEDULED RECORDING will be used

"**Motion Only**" – The Camera will always record on motion

System will not use any scheduled recording sessions when this button is selected

"**Always**" – The Camera will be on continuous recording

System will not use any scheduled recording sessions when this button is selected

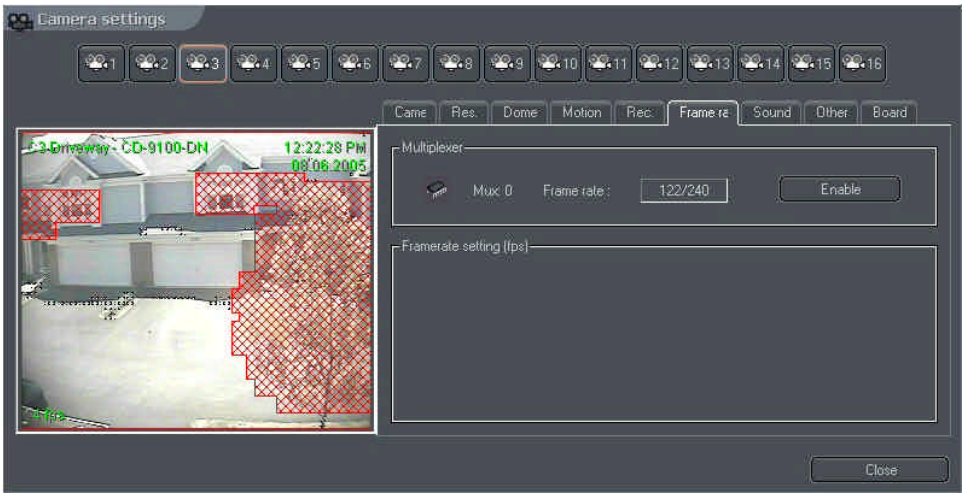
"**Add Watermark**" – This setting will record an invisible watermark to prove that the film has not been tampered with. This is a useful feature if the video has to be used in a court.

4.2.6 Camera Frame-Rate Settings ("Frame"Tab)

One of the major advantages of the Alnet system over many of the other DVR Cards, is the ability to independently adjust the framerate of each camera. This will allow you to achieve real-time on most important cameras, while reducing the framerate on other cameras.

Note: These settings are not necessary with Real-Time Alnet DVR Cards

Camera Settings Menu > Click the "Frame ra" tab



Click on "**Enable**" to begin adjustment of camera framerates

Click the box next to one of the cameras

Select the desired framerate for that camera

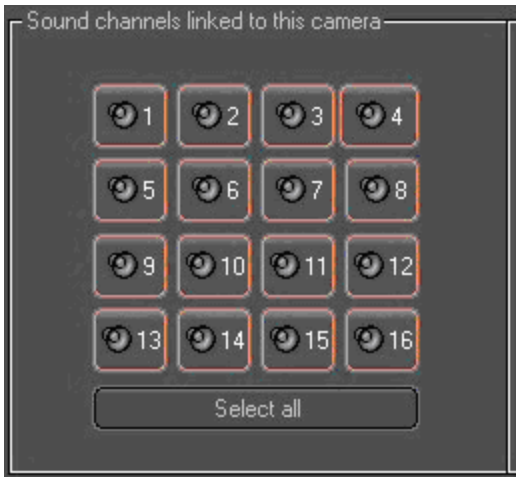
Repeat for each additional camera

Note: the total framerate of all cameras will not exceed the maximum framerate of the DVR card.

4.2.7 Camera Sound Settings ("Sound"Tab)

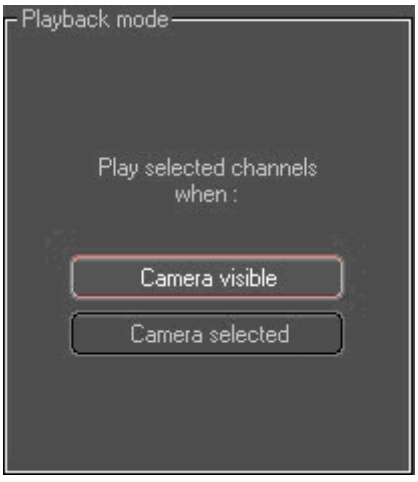
Camera Sound Settings allows you to configure what audio channels will record or play with the selected camera. You can even configure multiple cameras to record and play the same audio input or multiple sound channels simultaneously.

Camera Settings Menu > Click the "Sound" tab



Highlight in Red the audio inputs for any audio that you want to record and play with that camera.

If multiple audio channels are selected, it will record/playback all selected channels



"**Camera Visible**" - Play the audio any time that camera was visible on the main viewport

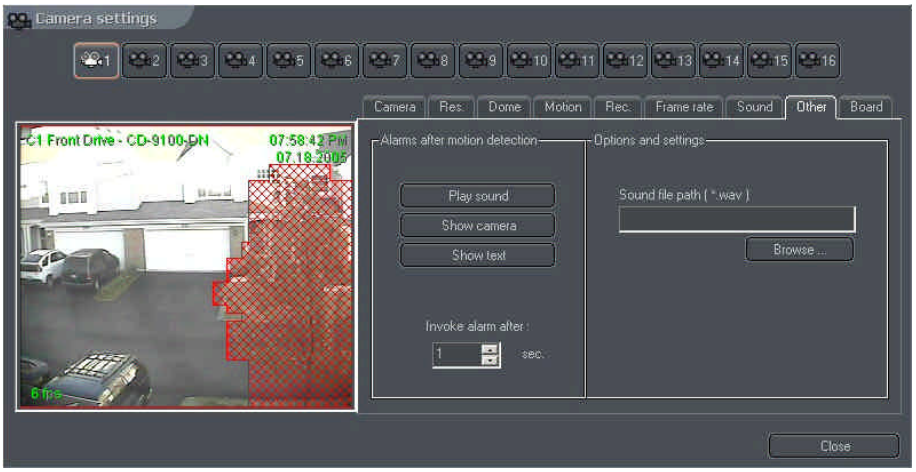
"**Camera Selected**" - Play the audio only when that camera is selected on the main viewport

The VDR-S Software will always show 16 audio channels, regardless of how many active channels of audio you have. However, it will only record from the active audio channels that you have available and configured in audio properties

4.2.8 Other Camera Settings ("Other"Tab)

The other settings tab will allow you to configure events to occur after motion is detected, such as: playing a sound, bringing camera to full-screen or showing text.

Camera Settings Menu > Click the "Other" tab



Alarms after Motion Detection

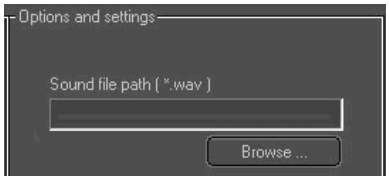
The Alarms after Motion Detection settings will allow you to program actions for the VDR-S software to perform when motion is detected on that camera.

"**Play Sound**" – When highlighted, the system will be set to play the sound selected in the "**Sound file path**" setting to the right

"**Show Camera**" – This will bring the camera to full-screen in the main viewer when motion is detected.

"**Show Text**" – This will show a small notification in the task bar when viewer is in Preview or Minimized mode

"**Invoke alarm after**" – This setting selects the Time in seconds that the highlighted actions above will trigger after the motion is detected

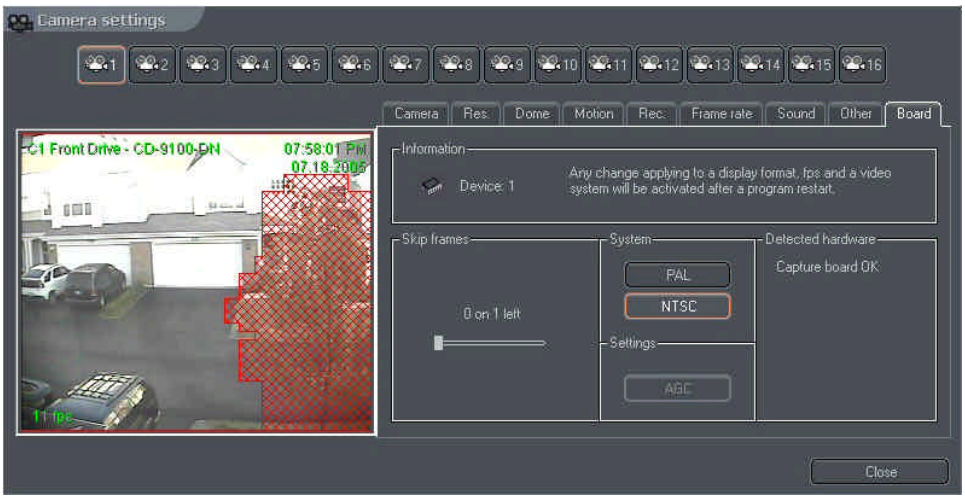


Sound File Path – This setting will allow you to select a sound file to play if "Play Sound" is selected for Motion Alert

4.2.9 Board Settings ("Board"Tab)

The Board settings will allow you to check on the status of the DVR Board, as well as changing the Video System setting. The settings on the "Board" tab will automatically apply to the entire system only after the program restarts.

Camera Settings Menu > Click the "Board" tab



PAL – European Standard for video

NTSC – US & Japan Standard for video

Detected Hardware – Shows if capture boards have been properly detected and drivers loaded.

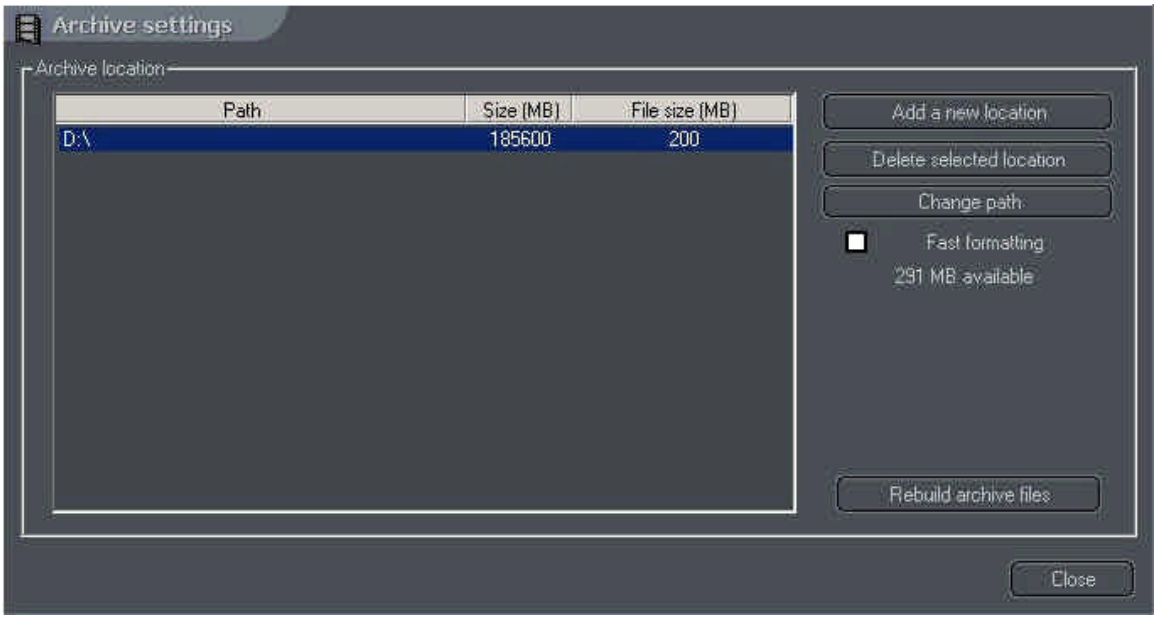
Repeat 4.2.2 through 4.2.9 for each Camera

After completing the configuration for each of the cameras, press "Close" to apply the settings

4.3 Hard Drive Archive Setup

Archive settings will allow you to set up your hard drive space for recording. The Alnet VDR-S system will allow you to record to multiple drives or partitions and specify the size of your Archive on each drive or location separately.

Main Viewer Screen > Click the "Archive" icon



Click "**Add a new location**" – This will add a new location under the "**Path**" heading.

Double-Click the Path listed under the "**Path**" heading

Double-Click the area under the "**Size (MB)**" – This will allow you to change the amount of space in Megabytes that will be used on the hard drive for recording. It is recommended that you leave at least 1000-2000MB remaining on the drive for windows to use.

Change the "**File Size (MB)**" – It is recommended that you leave this setting at 200MB for best performance.

Check "**Fast Formatting**" - Allow the Archive location to format during the first recording cycle. When selected, this setting will shorten the time for initial drive setup.

Click "**Rebuild archive files**" – Click this button to set up the Archive files on the hard drive.

Once you click "Rebuild archive files", a progress bar will appear.
Once the rebuild is complete, the "Archive Settings" menu will close

4.4 Network Settings Configuration

The Network Settings Panel of the VDR-S software will allow you to custom tailor the connection options that your users will have available.

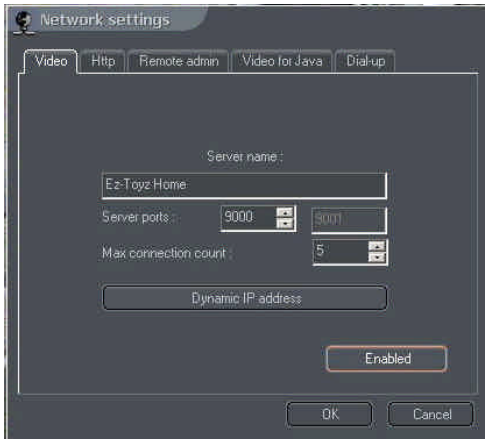
4.4.1 Entering Network Settings

Main Camera Viewport > Click the "Network Settings" Icon

4.4.2 Video Settings

The Video Settings will configure the ability to connect to your Alnet VDR-S server with VDR-C PC client and VDR-C PDA Client.

Network Settings > Click the "Video" Tab



Server Name – Enter a name for your DVR Server

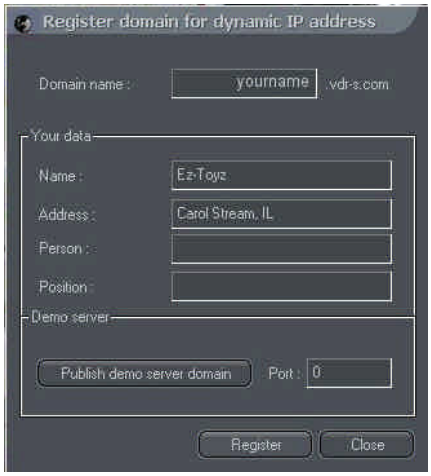
Server Ports – Leave this section alone unless you are experienced with network settings

Max Connection Count – Set the maximum number of remote connections at one time.

Enabled – Enable incoming connections from VDR-C Client

Register Dynamic IP –

The Dynamic IP registration will allow you to register your IP address with Alnet's DDNS server for free. This allows use of a dynamic IP broadband or dial-up internet connection to accept incoming remote connections.



Domain Name – Enter the Address to use for remote connection

Name – Your business name

Address – Address of your business

Person – Your Name

Position – Your Position with the company

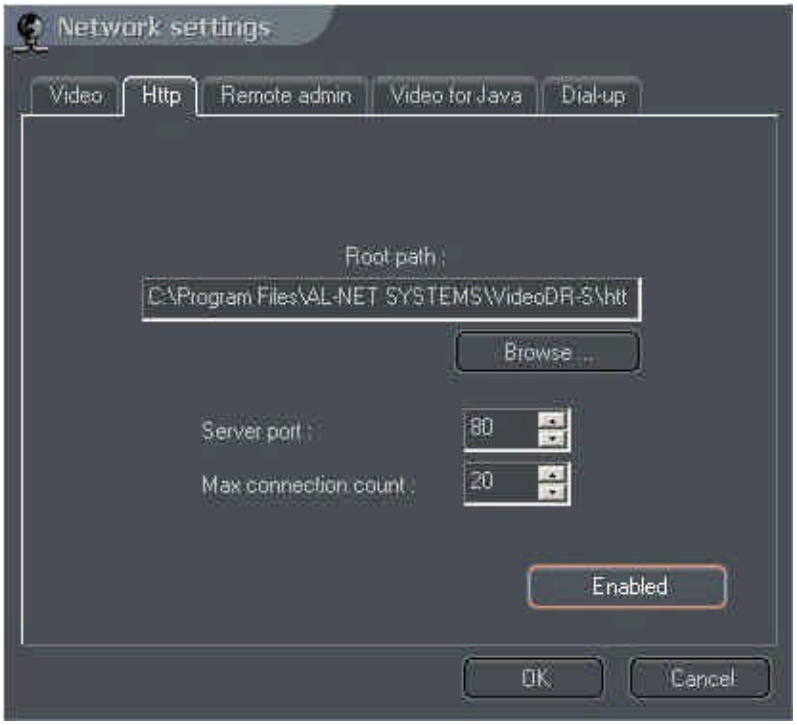
Publish Demo Server (Optional)– This will publish your demo server for anyone to connect to it via a demo account

Register – This will register your information above with Alnet's DDNS server

4.4.3 HTTP Settings

The HTTP settings will allow you to configure the remote web connection for your Alnet Systems VDR-S software. This will only affect clients who connect in through Internet Explorer browser – it will not affect clients connecting through the VDR-C remote Client settings

Network Settings > Click the "Http" Tab



Root Path – Leave this setting alone (except for advanced users)

Server port - should remain at 80, except for advanced users

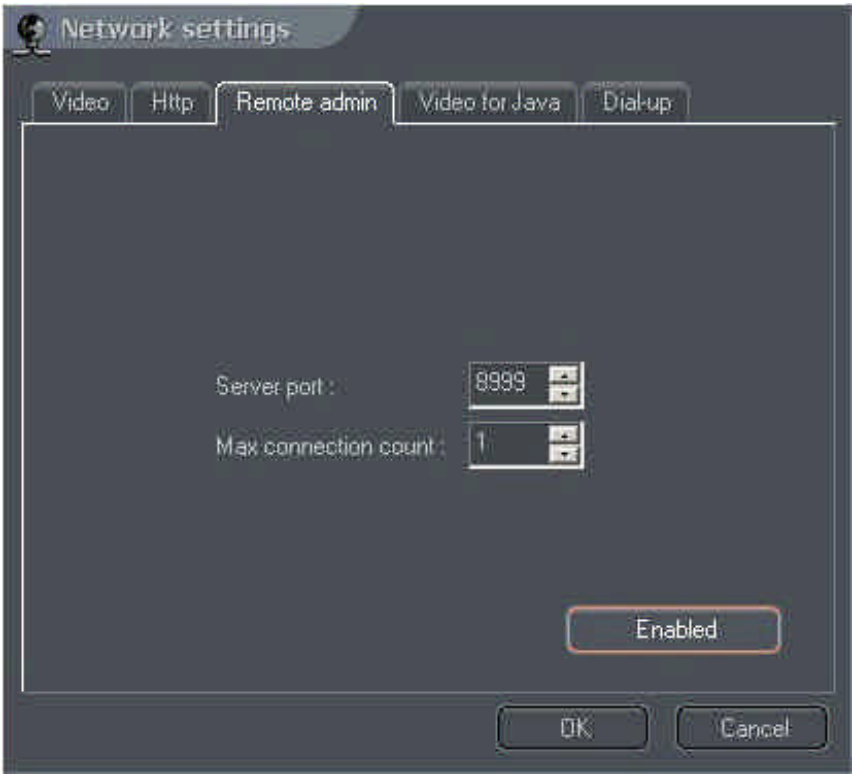
Max connection count - maximum number of users that can connect via the web client at one time

Click "**Enabled**" to enable the web client for Internet Explorer remote access capabilities

4.4.4 Remote Admin

The remote admin tab is provided for future use to remotely administer Alnet VDR-S system settings. This module is currently under redevelopment.

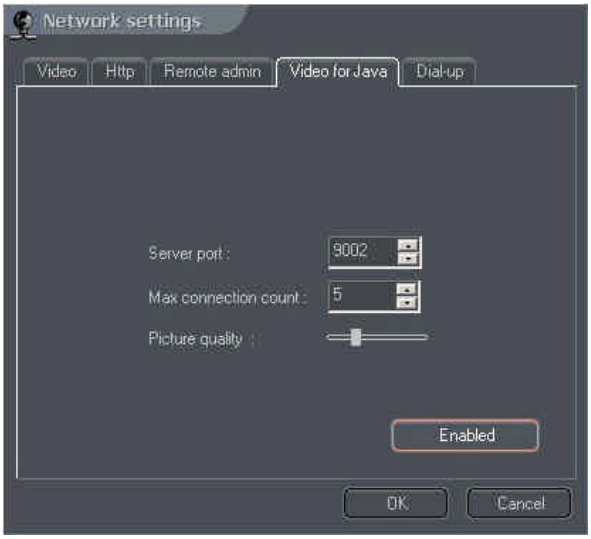
Network Settings > Click the "Remote admin" Tab



4.4.5 Video for Java Settings

The video for Java settings will allow you to configure the settings for users that will connect via their cell-phone client. These settings will not have an affect over any other remote connection type.

Network Settings > Click the "Video for Java" Tab



Server port – Port for Java Connection
It is recommended that you leave this setting at 9002 except for advanced network users

Max connection Count – Maximum users that can connect via Java Cell-Client

Picture Quality - Select the picture quality for cell-phone remote client users.

Lower Quality = Higher framerate
Higher Quality = Lower framerate

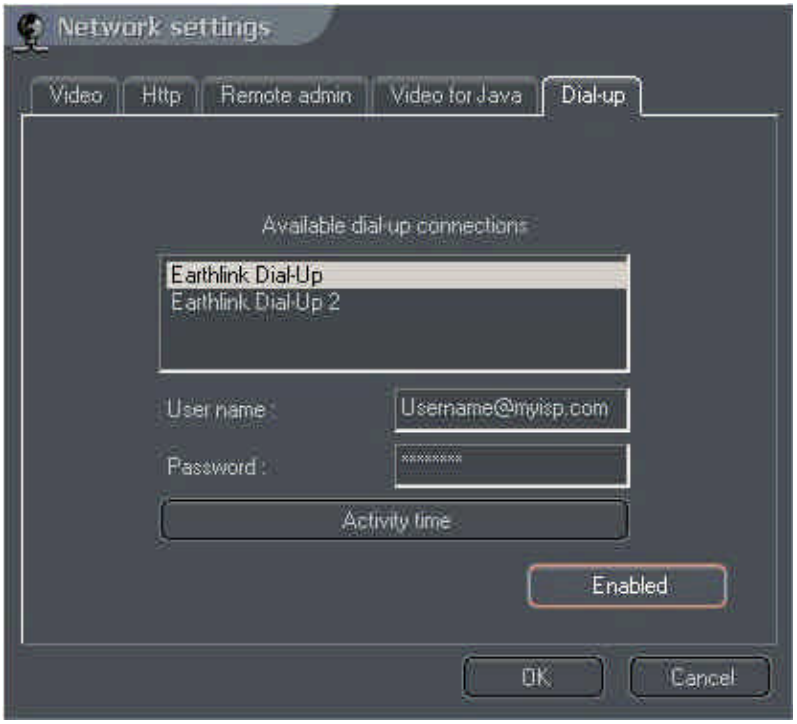
Note: You may have to tune these settings later based on your mobile phone connection speed.

4.4.6 Dial-Up Settings

Configure the Dial-Up Access to automatically dial the internet and remain connected to allow for remote access via dial-up connection on the VDR-S Server.

Network Settings > Click the "Dial-Up Settings" Tab

Note: **You must already have a dial-up connection setup in Windows before setting up the Dial-up settings in Alnet VDR-S**



Available dial-up connect Select the connection to use when connecting.

User name – Enter your username for your ISP

Password – Enter the password for your ISP

Activity Time – Set the times for VDR-S to automatically connect to the internet

Activity Time - Highlight in red the times you want the server to automatically dial and maintain the internet connection.

4.4.7 Router Settings

Most internet connections these days are protected by a router. The router will direct traffic from the internet to the correct computer. If you are using a broadband-style internet connection, then you will need to configure your router to send traffic to the correct IP address.

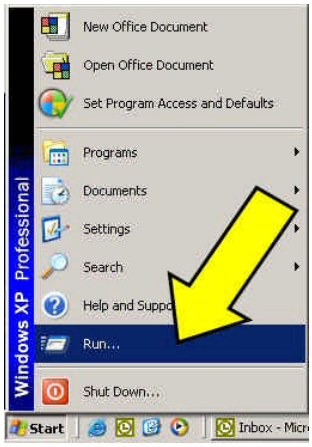
Note: Router settings are not made inside the VDR-S software. These are settings that will have to be made on your specific cable-modem, DSL-modem or router. Consult the documentation from your modem or router to find how to forward these ports.

The following ports will need to be forwarded to the internal IP address of your DVR PC.

Remote Connection Type	Port Forwarded
VDR-C Remote Client / PDA	**9000, 9001**
HTTP (Internet Explorer)	**80**
Remote Administrator	**8999**
Java Cell Phone Client	**9002**

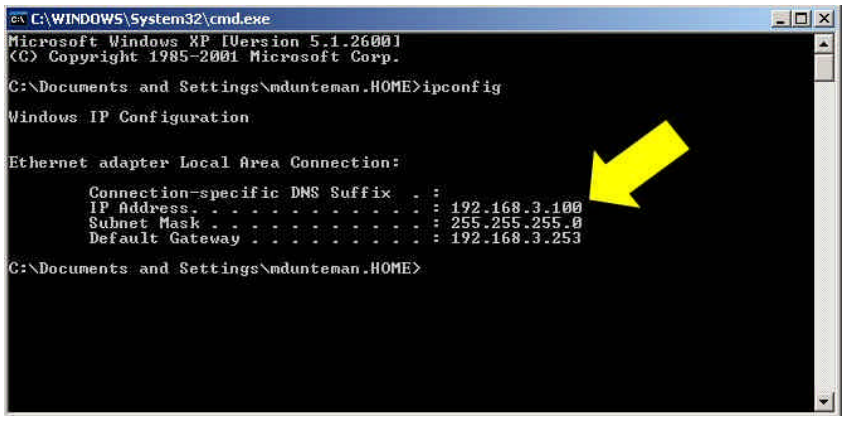
Finding your Internal IP Address

In order to find your Internal IP address, you will need to use the Windows XP command-line tool. It is recommended that your DVR PC receives an internal static IP address (an address which will not change). Consult your Network Administrator for details on changing IP addresses and types.



Click Start Menu → Run

Type "CMD" and press "**Ok**"


C:\WINDOWS\System32\cmd.exe
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.
C:\Documents and Settings\mdunteman.HOME>ipconfig
Windows IP Configuration
Ethernet adapter Local Area Connection:
Connection-specific DNS Suffix . :
IP Address. . . . . : 192.168.3.100
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . : 192.168.3.253
C:\Documents and Settings\mdunteman.HOME>

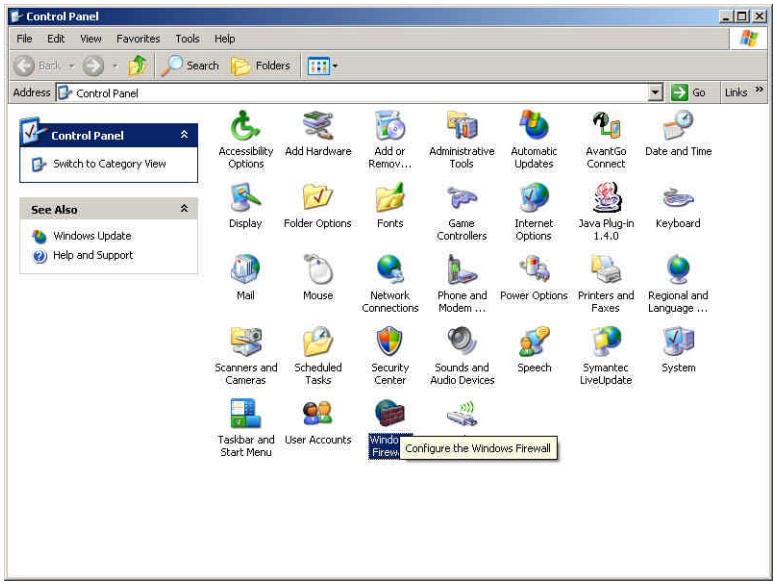
Type "**IPCONFIG**" and **press Enter** to continue

The IP address will be listed on the command screen
(i.e. 192.168.1.100)

4.4.8 Windows Firewall Settings (Windows XP SP2)

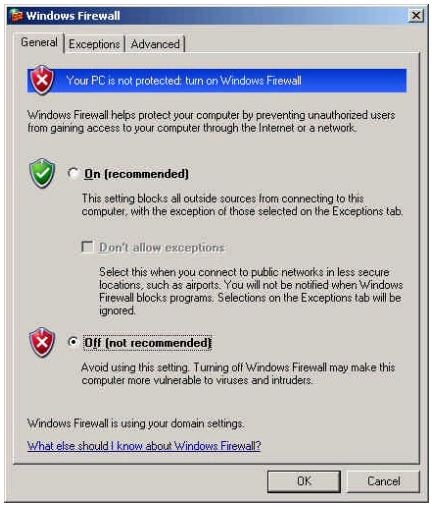
With the introduction of Windows XP Service Pack 2, windows has implemented a built-in firewall program. This firewall, as well as any other firewall software on your PC will have to be reconfigured to allow remote access capabilities. Choose Easy or Advanced method below.

Easy Method *(Disabling Windows Firewall)*



1. Open the "***Control Panel***" from the Start Menu
2. Once the Control Panel Opens, find the "***Security Center***" and double-click it.

Disabling Windows Firewall

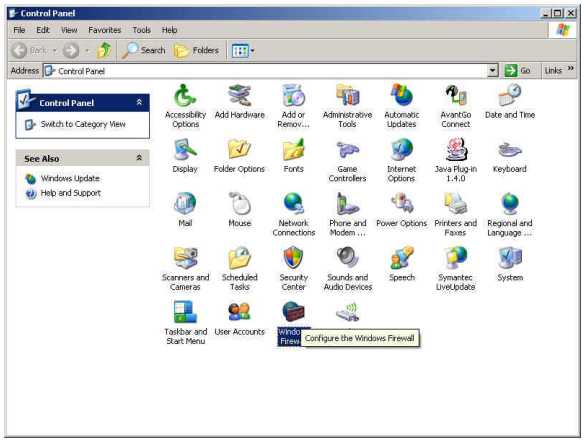

Windows Firewall
General Exceptions Advanced
Your PC is not protected: turn on Windows Firewall
Windows Firewall helps protect your computer by preventing unauthorized users from gaining access to your computer through the Internet or a network.
On (recommended)
This setting blocks all outside sources from connecting to this computer, with the exception of those selected on the Exceptions tab.
Don't allow exceptions
Select this when you connect to public networks in less secure locations, such as airports. You will not be notified when Windows Firewall blocks programs. Selections on the Exceptions tab will be ignored.
Off (not recommended)
Avoid using this setting. Turning off Windows Firewall may make this computer more vulnerable to viruses and intruders.
Windows Firewall is using your domain settings.
What else should I know about Windows Firewall?
OK
Cancel

Click "***Off (not recommended)***" then press "***OK***" to apply the settings.

Your Win XP SP2 Windows Firewall has now been *disabled*

Disclaimer: Platinum CCTV Surveillance Solutions provides this information as a free service to assist our customers. Disabling a firewall on a PC that has no other protection from possible internet attacks is not recommended, but may be the best solution for a basic user. Platinum CCTV cannot be held liable for damage done to an unprotected PC left open to unrestricted internet access. Platinum CCTV Surveillance Solutions recommends using the advanced method of Windows Firewall configuration, which will permit only mission-critical ports for the specific DVR Software you are using.

Advanced Method *(Programming Windows Firewall Exceptions)*



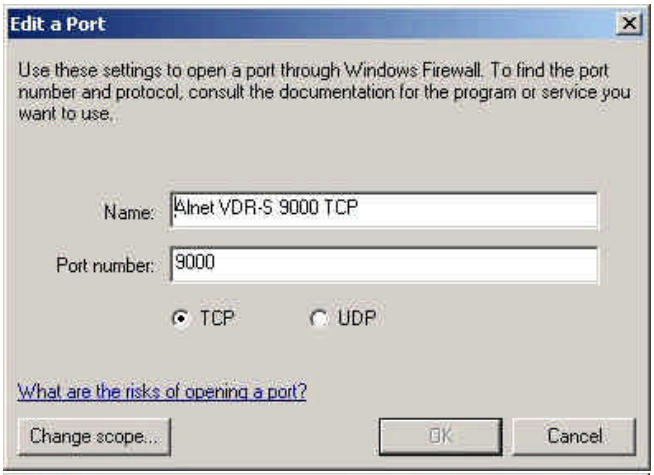
Open the "***Control Panel***" from the Start Menu

Once the Control Panel Opens, find the "***Security Center***" and double-click it.

Programming Alnet Firewall Exceptions

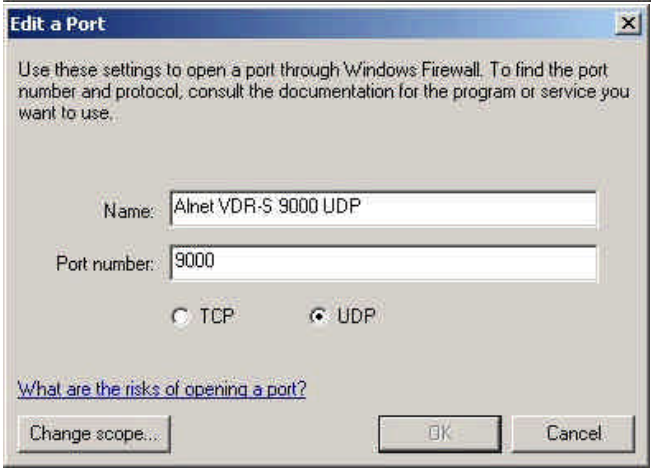
Adding Alnet Port #1

1. Click on the "***Exceptions"*** Tab
2. Click on the "***Add Port...***" Button
3. Type in "***Alnet VDR-S 9000 TCP***" in the "**Name**" box.
4. Type "***9000***" in the "***Port Number***" box
5. Click the "***TCP***" button
6. Click "***OK***" to add the Port


Edit a Port
Use these settings to open a port through Windows Firewall. To find the port number and protocol, consult the documentation for the program or service you want to use.
Name: Alnet VDR-S 9000 TCP
Port number: 9000
TCP
UDP
What are the risks of opening a port?
Change scope...
OK
Cancel

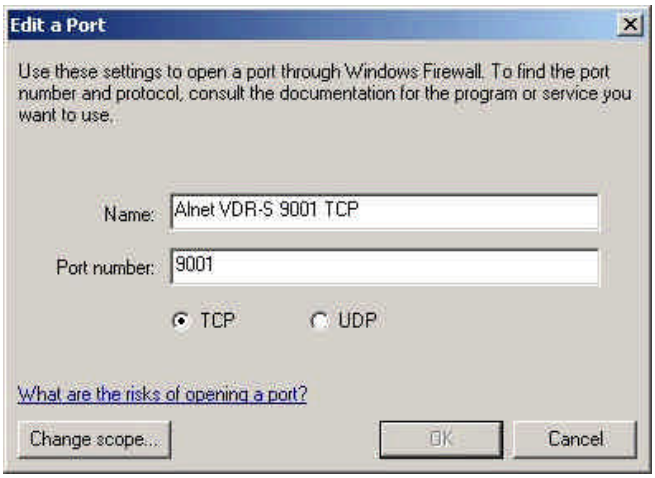
Adding Alnet Port #2

1. Click on the "***Add Port...***" Button
2. Type in "***Alnet VDR-S 9000 UDP***" in the "**Name**" box.
3. Type "***9000***" in the "***Port Number***" box
4. Click the "***UDP***" button
5. Click "***OK***" to add the Port


Edit a Port
Use these settings to open a port through Windows Firewall. To find the port number and protocol, consult the documentation for the program or service you want to use.
Name: Alnet VDR-S 9000 UDP
Port number: 9000
TCP
UDP
What are the risks of opening a port?
Change scope...
OK
Cancel

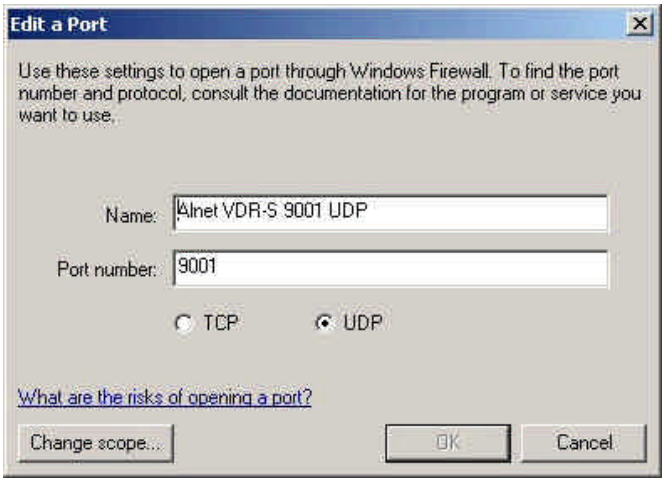
Adding Alnet Port #3

1. Click on the "***Add Port...***" Button
2. Type in "***Alnet VDR-S 9001 TCP***" in the "**Name**" box.
3. Type "***9001***" in the "***Port Number***" box
4. Click the "***TCP***" button
5. Click "***OK***" to add the Port

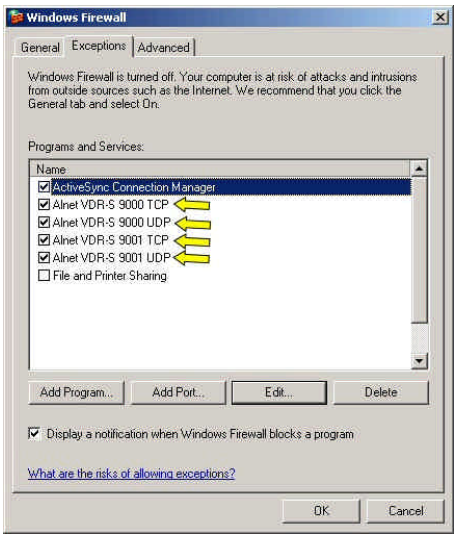

Edit a Port
Use these settings to open a port through Windows Firewall. To find the port number and protocol, consult the documentation for the program or service you want to use.
Name: Alnet VDR-S 9001 TCP
Port number: 9001
TCP
UDP
What are the risks of opening a port?
Change scope...
OK
Cancel

Adding Alnet Port #4

1. Click on the "***Add Port...***" Button
2. Type in "***Alnet VDR-S 9001 UDP***" in the "**Name**" box.
3. Type "***9001***" in the "***Port Number***" box
4. Click the "***UDP***" button
5. Click "***OK***" to add the Port


Edit a Port
Use these settings to open a port through Windows Firewall. To find the port number and protocol, consult the documentation for the program or service you want to use.
Name: Alnet VDR-S 9001 UDP
Port number: 9001
TCP
UDP
What are the risks of opening a port?
Change scope...
OK
Cancel

Double-Check your Settings


Windows Firewall
General
Exceptions
Advanced
Windows Firewall is turned off. Your computer is at risk of attacks and intrusions from outside sources such as the Internet. We recommend that you click the General tab and select On.
Programs and Services:
Name
ActiveSync Connection Manager
Alnet VDR-S 9000 TCP
Alnet VDR-S 9000 UDP
Alnet VDR-S 9001 TCP
Alnet VDR-S 9001 UDP
File and Printer Sharing
Add Program...
Add Port...
Edit...
Delete
Display a notification when Windows Firewall blocks a program
What are the risks of allowing exceptions?
OK
Cancel

Once you have completed entering the 4 Alnet Systems Ports above, your Exceptions window should look something like this.

For Java Cell Connection, add port 9002 TCP and UDP exceptions as well.

Your Windows Firewall is now configured to accept Remote Connections for the Alnet Systems Inc. DVR Cards.

4.5 Program Settings Configuration

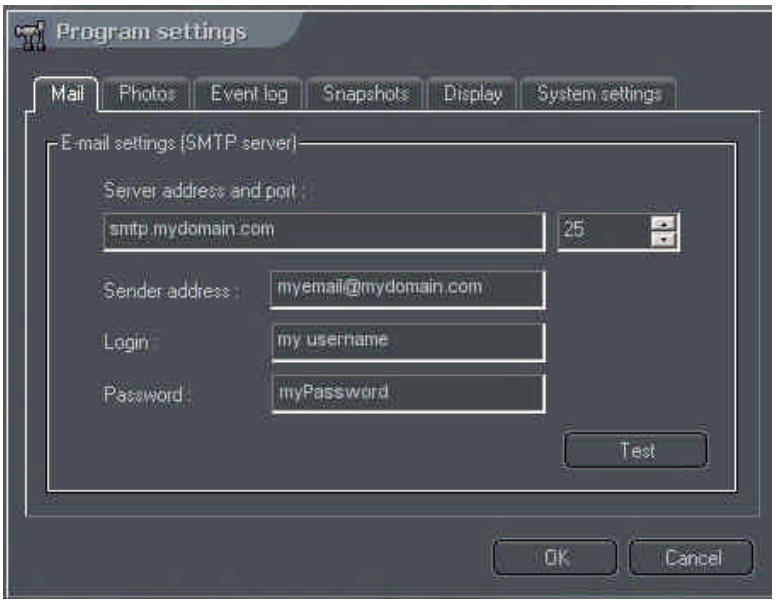
The Program Settings area of the VDR-S software will allow for configuration of e-mail server settings, default photos settings, event log settings, snapshots settings as well as display and system settings.

4.5.1 Entering Program Settings Menu

Main Camera Viewport > Click the "Network Settings" Icon

4.5.2 Mail Settings

The Alnet Systems Mail settings allow configuration of the e-mail servers and e-mail account from which e-mail alerts will be sent. Without configuration of the settings in the Mail tab of Program settings, e-mail alerts will not operate.



Server address and port – Enter the server address and port for e-mail configuration (provided by your ISP)

Sender address – Enter the email address that the e-mail alerts will be sent from

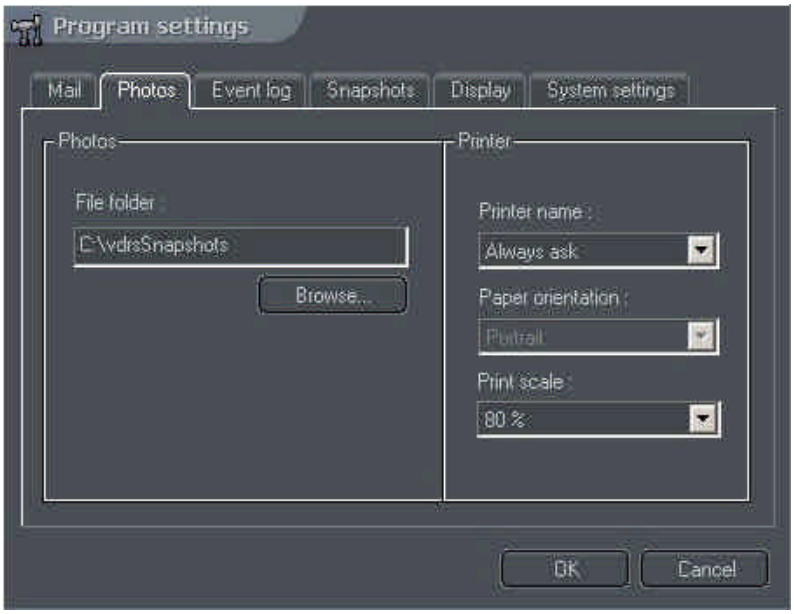
Login* – Enter the login name you use for your ISP email

Password* – Enter the password for your ISP email

***Depending on your ISP (Internet Service Provider) and connection location, their server may or may not require the Login and Password. If e-mail alerts do not function with Login and Password, then try again with these fields blank**

4.5.3 Photos Settings

The Photos settings will allow for configuration of photo save location and print settings.



File folder – Enter the location where you would like photo snapshots to be saved.

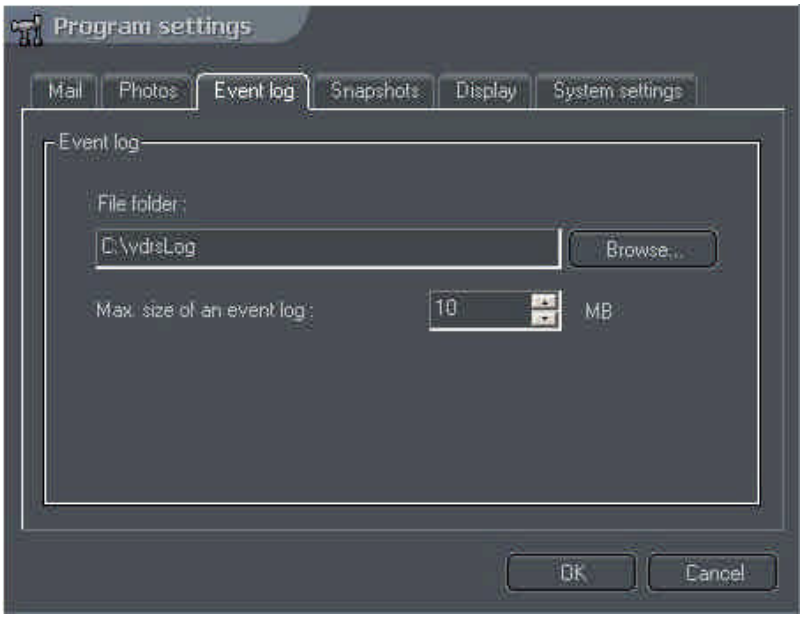
Printer name – Select the printer to use for printing photos, or select "Always Ask"

Paper orientation – Select Portrait or Landscape

Print Scale – Select how to scale snapshots when printing

4.5.4 Event Log Settings

The event log settings of the Alnet VDR-S software, the location and size of event logs can be configured.

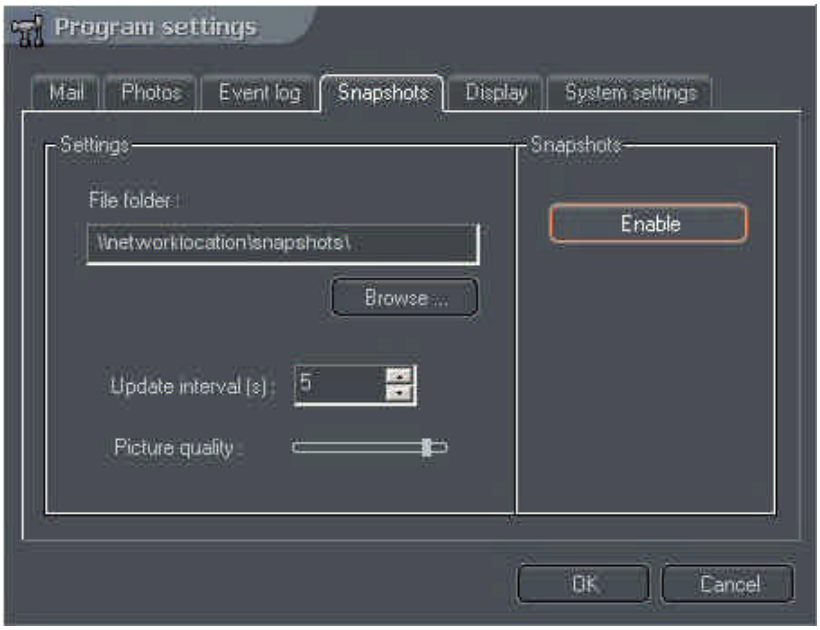


File Folder – Enter the desired location for the Event Logs

Max size of an event log – Select the maximum size of each event log file

4.5.5 Automatic Snapshots Configuration

The automatic snapshots function will allow you to archive the latest video images directly onto a local PC location, or onto a network drive. These automatic snapshots can be used to keep an archive of what was happening, in case the system is shut down, powered off, or removed from the location, you will still have JPG images of the last thing that occurred before system shutdown



File Folder – Enter the local or network location for saving the automatic snapshots.

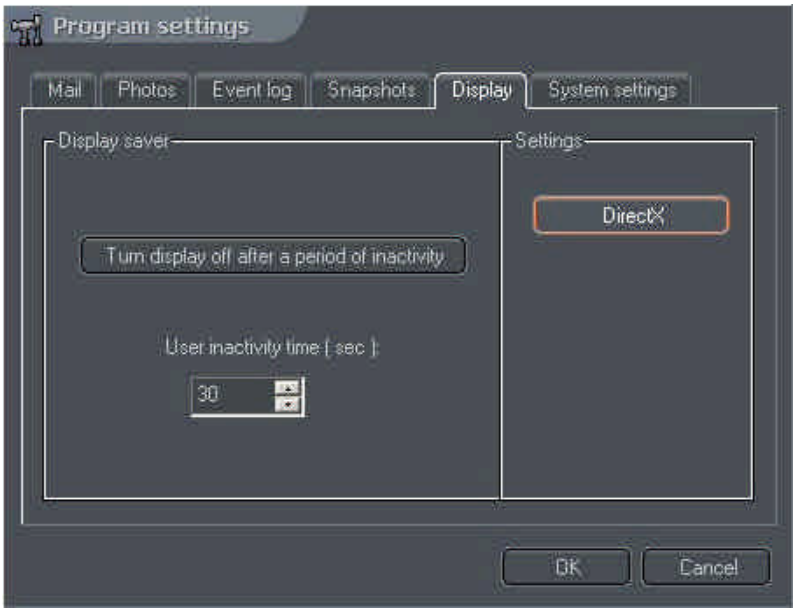
Update Interval – Enter the time in seconds between updates

Picture Quality – Select the quality of the automatic snapshots

Enable – Select Enable to begin network updates of the automatic snapshots

4.5.6 Display Settings

The display settings tab of program settings in the Alnet VDR-S program will allow configuration of software or hardware rendering as well as monitor power down. If the video card that is used in the VDR-S Server is not sufficient for hardware rendering, then the DirectX setting will need to be disabled to allow software rendering.



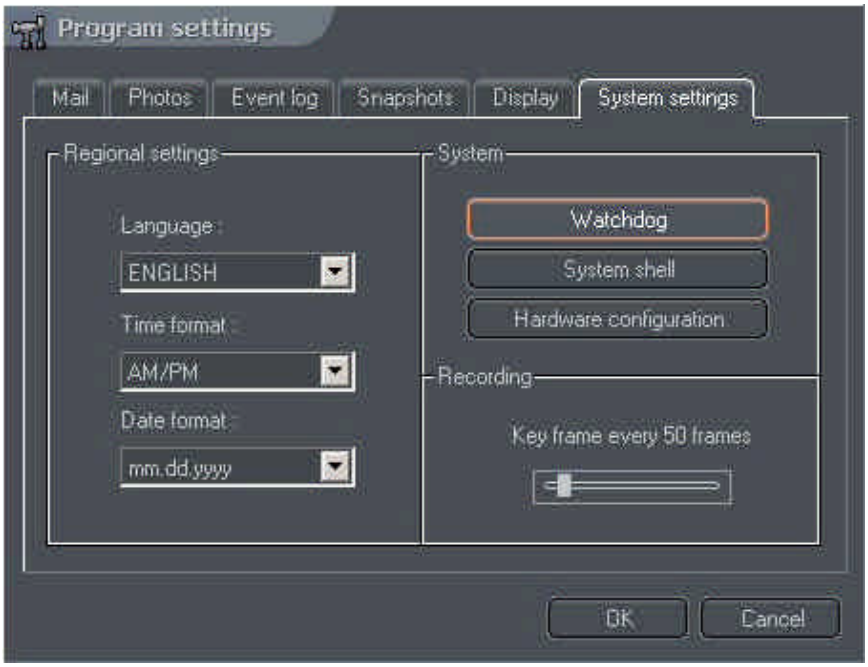
Turn display off after a period of inactivity – Select this option to shut off monitor automatically

User inactivity time (sec) – Select the amount of time before display powers down.

DirectX – This option will toggle between Hardware and Software rendering modes

4.5.7 System Settings

The system settings tab will allow you to configure regional settings, system settings such as system shell, watchdog and hardware configuration.



Language – Select the language used

Time format – Select desired time format

Date format – Select desired Date format

Watchdog – Select this setting to reboot PC if the system locks or hangs. (Watchdog cable must be installed)

System shell – Select this setting to prevent the user from exiting the program.

Hardware configuration – Selecting this option will reset the hardware configuration the next time the software is restarted

Key frame every 50 frames – Selecting this option will select the number of frames between key frames. A lower number here will increase the size of video archives. A larger number here will decrease the size of video archives, allowing more recording onto the same drive.

4.6 Scheduling Cameras

The Alnet VDR-S 2 Scheduler function is a large part of the advantage that the Alnet system has over other DVR solutions. The Advanced Scheduling of Camera, Inputs, Outputs, System Alerts, and Audio allow endless possibilities for the advanced configuration of your DVR solution and integration with other systems such as Alarms, Home Automation Systems and many others. Setting up multiple schedules will allow you to receive e-mail alerts on motion during critical hours, without annoying you with constant e-mail alerts during times when Motion is expected. Let's take a look at how to configure the Scheduler, to help you get the most out of your Alnet VDR-S server.

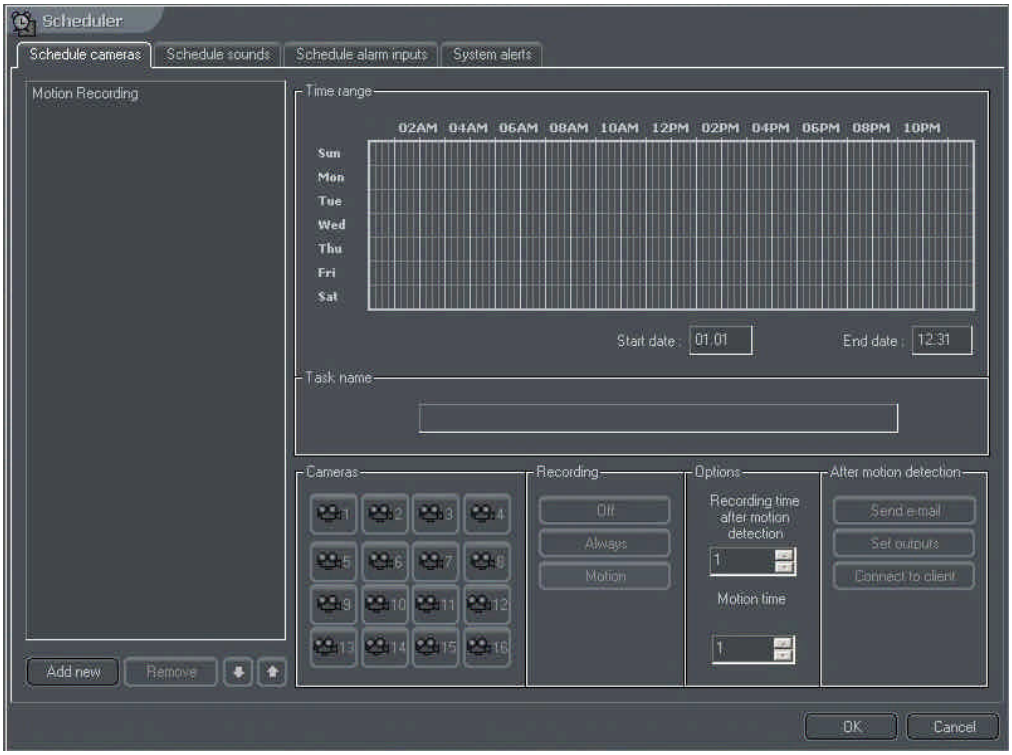
4.6.1 Opening the Scheduler

Main Viewer Screen > Click the "Scheduler" icon

Note: To use the scheduler to control camera recording, Recording must be set to disabled for each camera in the "Camera Settings" → "REC" tab.

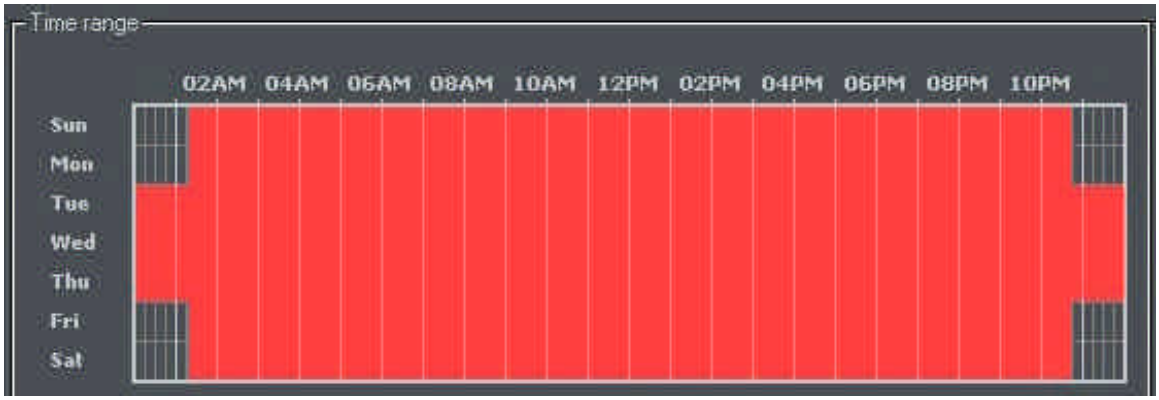
4.6.2 Adding a New Camera Schdedule

Camera Schedules will let you control the times, types of recordings, length of recordings and Alerts triggered after motion detection for one or multiple cameras at a time.



Scheduler > Click the "Add new" button

4.6.3 Setting the Schedule's Time Range



Left-Click and Drag over the time bar to set the time for the schedule

Note: Only time highlighted in Red will be the active time for the schedule

Hint: Holding "Ctrl" on the Keyboard while dragging and clicking will erase from the schedule.

4.6.4 Setting the Schedule's Date Range

Select a Start Date and End Date for the Schedule –
Note: Start date of 01.01 and End date of 12.31 will apply schedule year-round

4.6.5 Naming your Schedule

Type a name for your Schedule in the "**Task Name**" box

4.6.6 Selecting Cameras for the Schedule

Select the cameras for which the schedule should be activated in the "**Cameras**" box –
Cameras that are selected will be outlined in Red-Orange

4.6.7 Setting the Schedule Recording Type

In the **"Recording"** box, select the type of recording, if any that should be performed for the selected cameras during operation of the schedule

4.6.8 Setting the Schedule Motion Detection Options

Recording Time after Motion Detection – Selects how long you want the camera to record after it stops detecting motion

Motion Time – Selects how long motion needs to occur before the camera will begin recording

4.6.9 Setting the Schedule Motion Detection Alerts

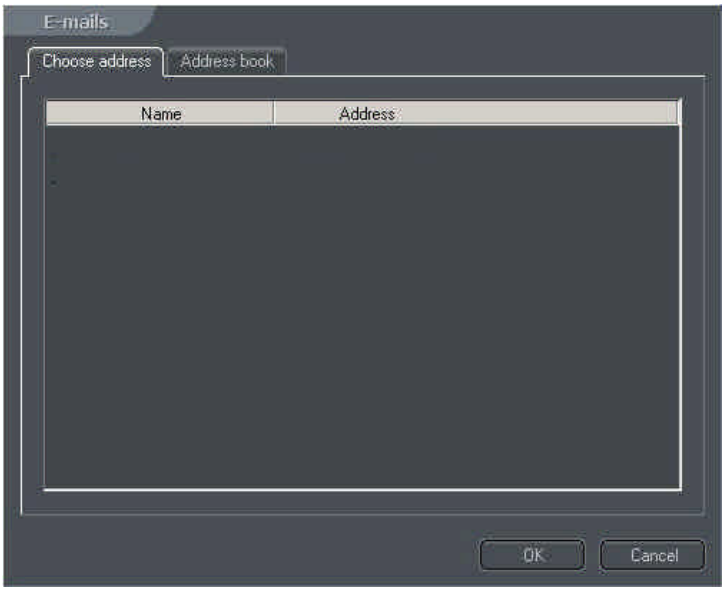
Send Email – This option will allow you to configure an email alert after motion is detected – **(See 4.6.10)**

Set Outputs – This option will configure Motion on the camera to trigger an output (optional Digital Input/Output card) – This output could trigger lights, alarms, or virtually any other low voltage device

Connect to Client – This option will connect to a client IP address and notify that motion has been detected.

4.6.10 Setting the Schedule Email Alerts

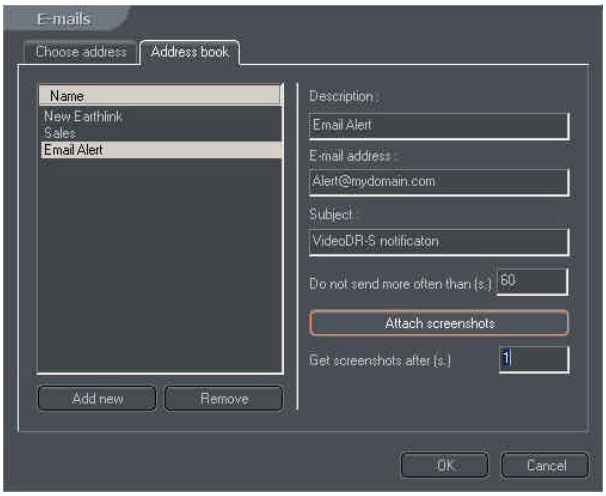
If you click "**Send e-mail**" to set up an email alert, the "Emails" dialog opens.



The first time you set up an email alert, you will not have any addresses in the "**Choose Address**" dialog

Click on the "**Address Book**" tab to set up a new email alert location.

Once in the "**Address Book**" you will need to click the "**Add new**" button to create a new address. After the new address is added, click the address to highlight it, and enter the settings below.



Description – Enter a Unique name for the email address that you are entering

Email Address – Enter the email address that you will be sending the email alerts to when this address is selected

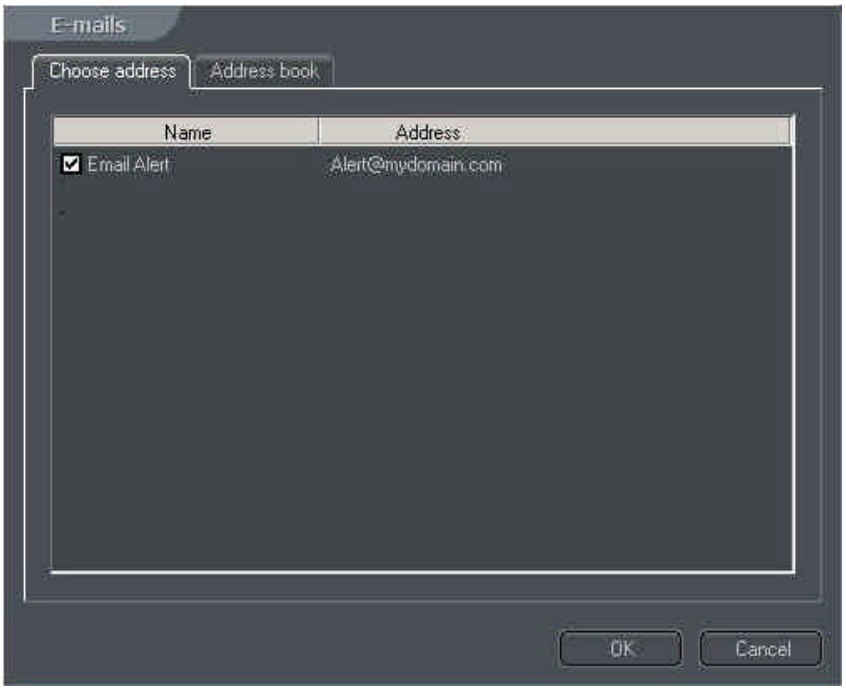
Subject – Enter the Subject of the email alert as you would like it to appear when the email is received

Do not send more often than (s.) – The minimum amount of time in between email alerts that is desired

Attach Screenshots button – Click here to select the cameras that you would like to attach screenshots for in the email alert

Get Screenshots after (s.) – This setting will determine how long the Alnet VDR-S system should delay after sensing motion before taking a screenshots for selected cameras. Time is displayed in seconds.

Once you have setup an email address in the address book, click the "**Choose Address**" tab



Check the box next to the Address you set up in the Address book.

Press "**OK**" to return to the Scheduler

4.7 Audio Scheduler Configuration

The Alnet VDR-S 2 Scheduler function is a large part of the advantage that the Alnet system has over other DVR solutions. The Advanced Scheduling of Audio Inputs, allows you to activate Audio channels at specific times, and trigger camera recording, e-mail alerts, or trigger outputs based on audio input.

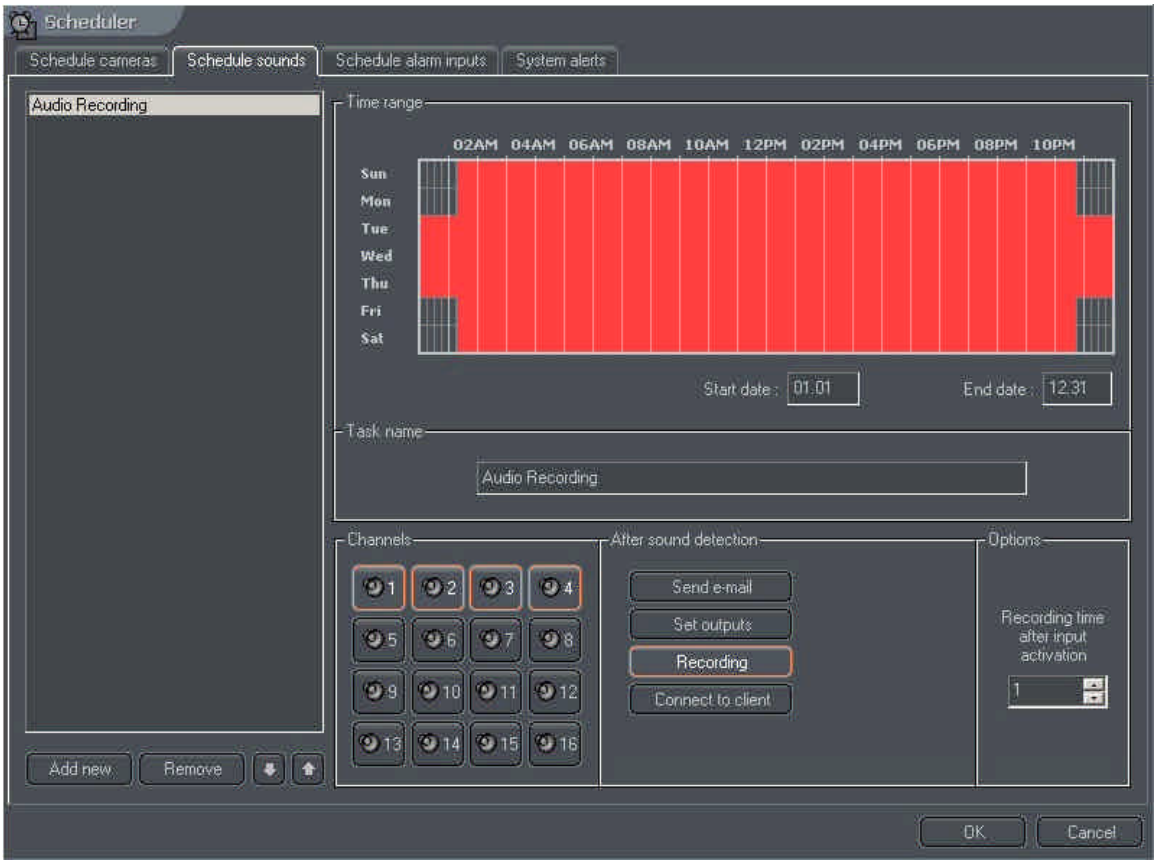
4.7.1 Opening the Scheduler

Main Viewer Screen > Click the "Scheduler" icon

4.7.2 Scheduling Audio Inputs and Alerts

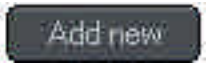
The Schedule Sounds Tab of the Alnet Scheduler will allow you to schedule Cameras to record, Send Email Notifications, trigger outputs (w/optional DI/DO Card(s)) or Alert a client PC based on Audio Detection.

Scheduler > Click the "Schedule Sounds" Tab

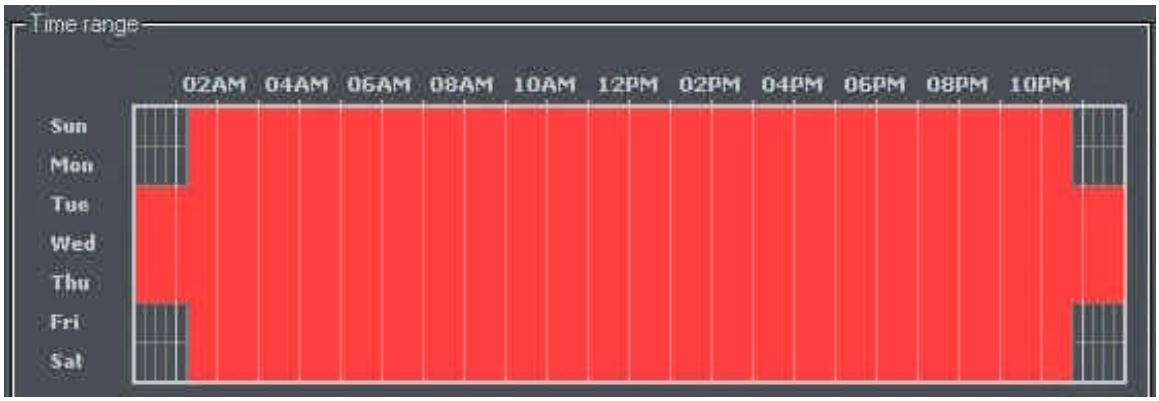


4.7.3 Adding a New Audio Schedule

Schedule Sounds > Click the "Add new" button



Left-Click and Drag over the time bar to set the time for the schedule
Note: Only time highlighted in Red will be the active time for the schedule



4.7.4 Setting Audio Schedule Date Range

Select a Start Date and End Date for the Schedule

4.7.5 Naming an Audio Schedule

Type a name for your Schedule in the "**Task Name**" box

4.7.6 Selecting Audio Channels to Activate

Select the audio inputs you wish the schedule to activate in the "**Channels**" box –

Channels that are selected will be outlined in Red-Orange

4.7.7 Setting Scheduled Audio Alerts

In the "**After sound detection**" box, select the action you wish to occur when sound detection on the selected cameras occurs

Send E-mail – Send an Email Alert with snapshots when sound is detected

Set Outputs – Control the outputs on an optional DI/DO expansion card when sound is detected

Recording – Start Recording on specified cameras when sound is detected

Connect to Client– Send an alert to a network PC

In the "**Options**" box, select the length of time you want cameras to record after the sound input is activated – Used with "**Recording**" option above

4.8 Alarm Inputs Scheduler Configuration

The Schedule Alarm Inputs Tab of the Alnet Scheduler will allow you to schedule Cameras to record, Send Email Notifications, trigger outputs (w/optional DI/DO Card), Add a Bookmark to the recording, or Alert a client PC based on Alarm Inputs from optional DI/DO Expansion card.

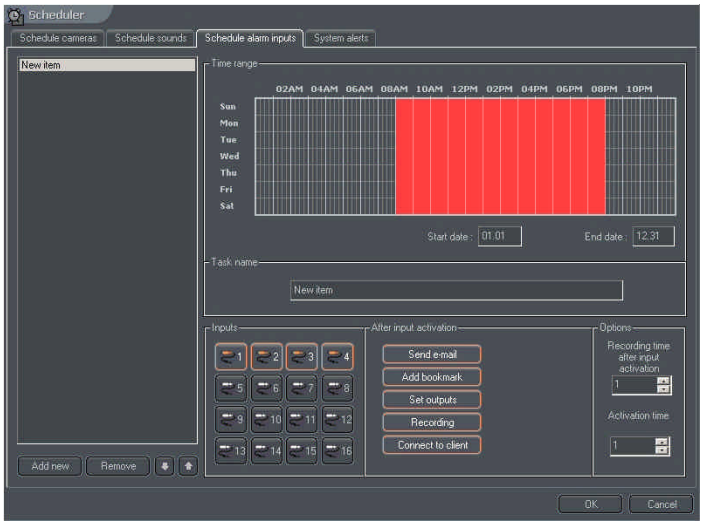
4.8.1 Opening the Scheduler

Main Viewer Screen > Click the "Scheduler" icon

4.8.2 Scheduling Alarm Inputs

Scheduler > Click the "Schedule alarm inputs" Tab

4.8.3 Alarm Inputs Schedule Settings



Click "**Add new**" to add a new schedule into the box on the left

Click and Drag across "**Time Range**" to set active time

Type a Name for the schedule in "**Task Name**"

Select the Inputs to trigger events in "**Inputs**" section

Select Event to occur when Input is triggered in "**After input activation**"

Select Recording options in "**Options**"

4.9 System Alerts Scheduler Configuration

To send System Alerts, Add Bookmarks, Trigger Outputs or Connect to a Remote Client from User Logins, System Reboots or other events, Click on "**System Alerts**" Tab of the Scheduler

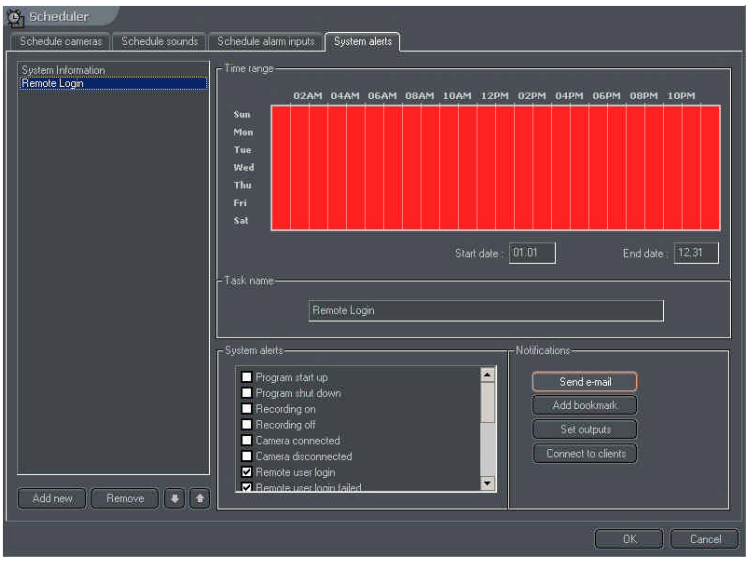
4.9.1 Opening the Scheduler

Main Viewer Screen > Click the "Scheduler" icon

4.9.2 Scheduling System Alerts

Scheduler > Click the "System alerts" Tab

4.9.3 System Alerts Schedule Settings



Click "**Add new**" to add a new schedule into the box on the left

Click and Drag across "**Time Range**" to set active time

Type a Name for the schedule in "**Task Name**"

Select the System Alerts to trigger Events in "**System Alerts**"

Select Event to occur when System Alerts occur in "**Notifications**"

System Alerts Include:

Program Start up
Program Shut Down
Recording on
Recording off
Camera Connected
Camera Disconnected
Remote user login
Remote user login failed
Remote user log out
Local user log in
Local user log in failed
Local user logout
Video Signal restored
Video Signal lost

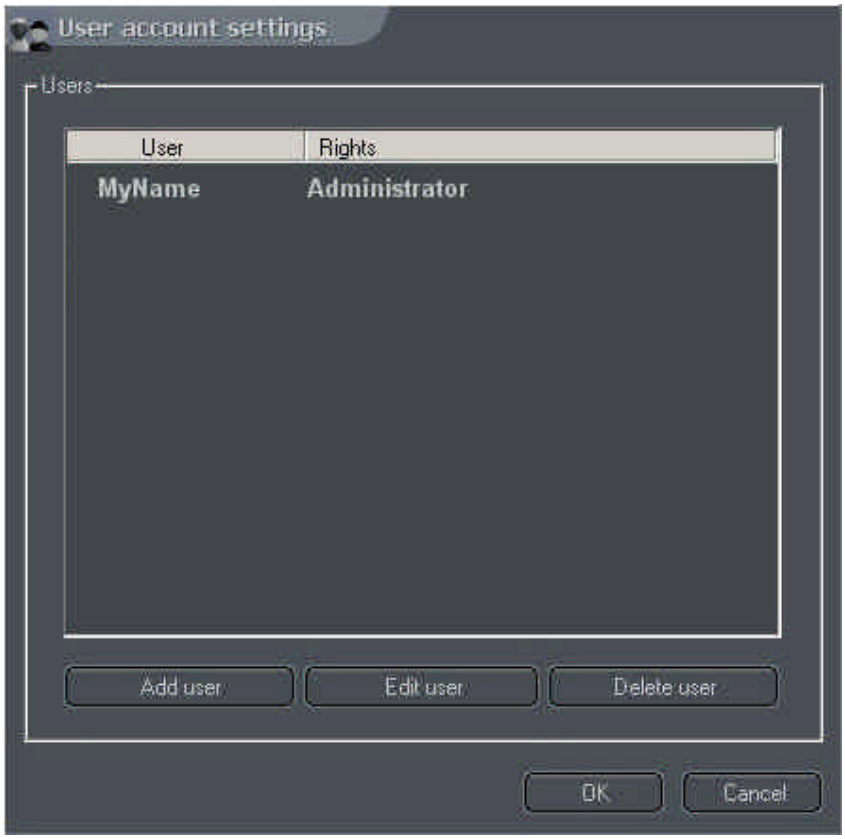
4.10 User Accounts Configuration

The User Accounts Settings are used for creating, editing, and assigning rights to Administrator and User accounts. Each user can be given independent rights to cameras, audio, archives, dome controls, inputs, outputs, and system settings and events.

4.10.1 Accessing User Account Configuration –

Main Viewer Screen > Click the "User Accounts" icon

Note: The user account that was created during the initial log in, will be listed in the User Accounts – This initial user account has full administrative rights.

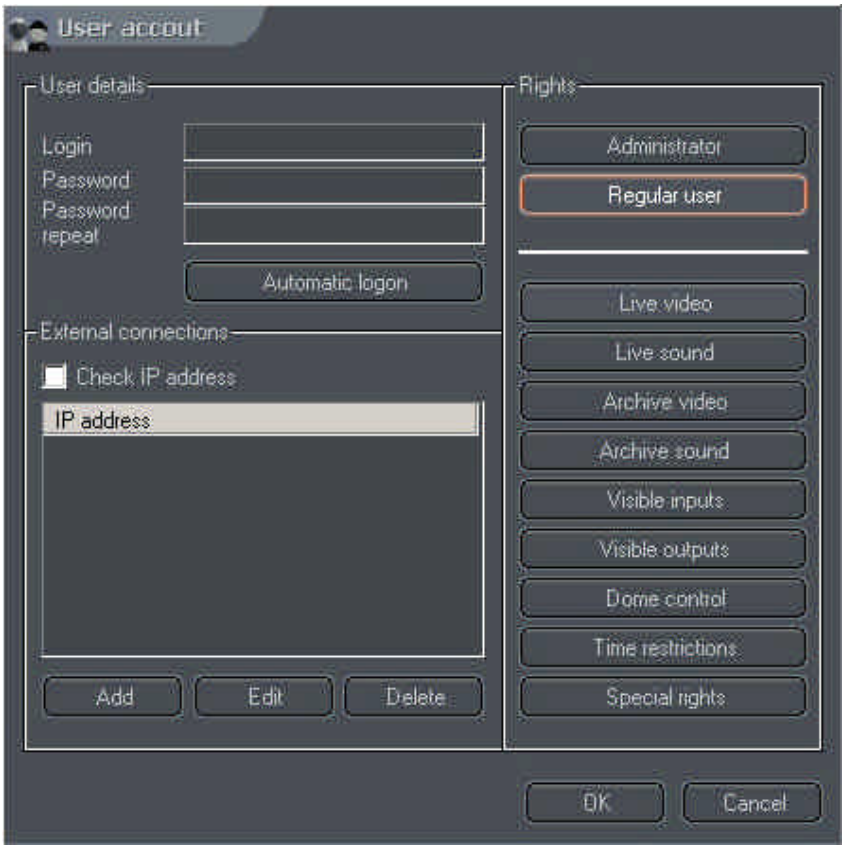


4.10.2 Adding New User Accounts

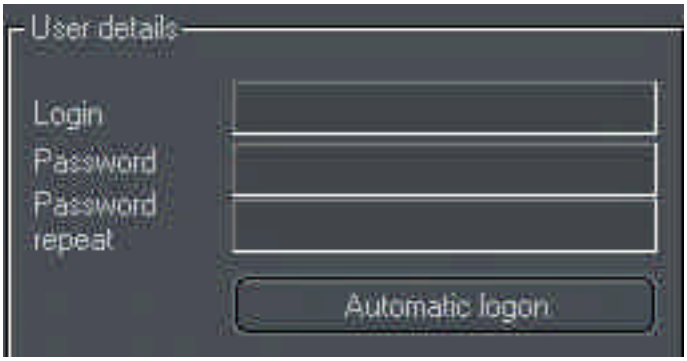
Adding a new user account will allow you to give another user rights to view cameras, inputs, outputs, control PTZ Dome Cameras, or change system settings without having to give away your administrator password.

Click the "Add User" button – To open "User Account" setup window

4.10.3 New User Account Setup –



4.10.4 User Details



Login – Enter the Username desired for the new account
(Note: Login is CaSe SeNsItIvE)

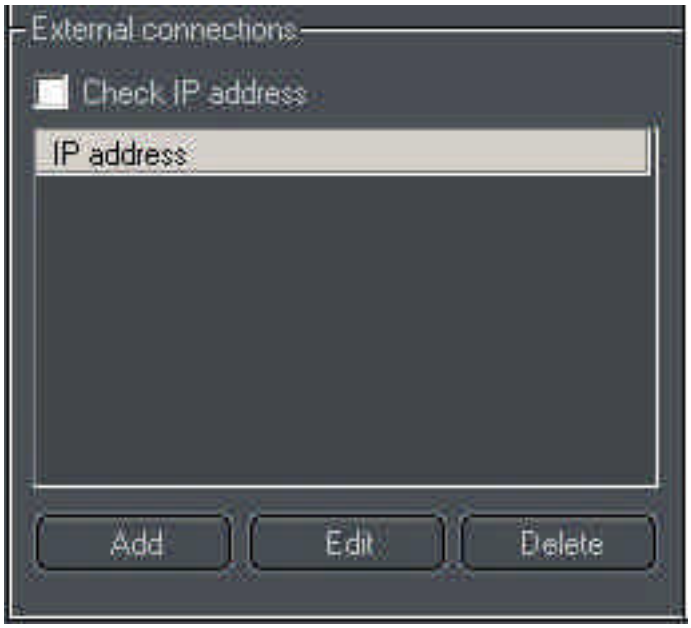
Password – Enter the Password for this user account
(Note: Password is CaSe SeNsItIvE)

Password Repeat – Enter the Password EXACTLY how entered in the Password box

4.10.5 External Connections –

The External connections section of user setup allows restriction of login to specific IP addresses. Leave this section blank unless you are very familiar with network protocols.

WARNING – Do not use this area if you are not VERY familiar with network operations! Incorrect entries here will prevent Network connection to the system!



Add – Add an IP Address to the permitted IP list

Edit – Edit the details of an IP address that was added

Delete – Delete an IP address from the permitted IP address list

Check IP Address – This will force Alnet to always check the IP address for the specified User against the permitted IP address list. If the user is connecting from a different IP address, then the user will not be permitted to login.

4.10.6 User Rights Assignment

Administrator – User will have full access to all special rights

Regular User – User will have limited rights to special rights

Live Video – Select the Cameras this user will be allowed to view live

Live Sound – Select the Audio inputs this user will be able to listen to live

Archive Video – Select the Cameras for which this user will be allowed to access pre-recorded footage from the archive

Archive Sound – Select the Audio inputs for which this user will be allowed to access pre-recorded audio from the archive

Visible inputs – Select the inputs this user will be able to monitor

Visible outputs – Select which outputs this user will be able to view and control

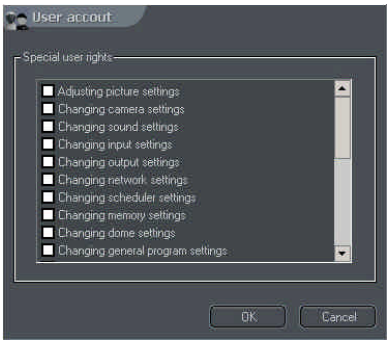
Dome Control – Select which PTZ Cameras this user will be able to control

Time Restrictions – Select the login hours for this user

NOTE – Time Restrictions MUST be set before exiting this screen!
New USERS will default to NO login hours allowed

Special Rights – Allow or deny access to certain Special Rights for the User

4.10.7 Special User Rights



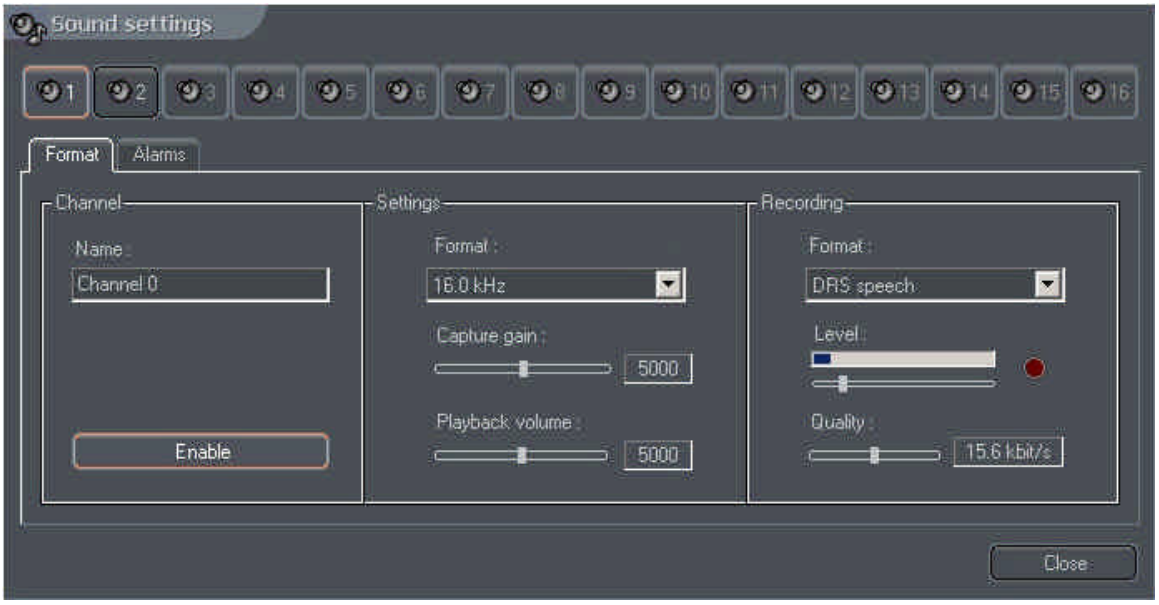
Special User Rights

Adjusting Picture Settings	Deleting Photos
Changing Camera Settings	Printing Photos
Changing Sound Settings	Archive Backups
Changing Input Settings	Add/Delete Bookmarks
Changing Output Settings	Exporting AVI file
Changing Network Settings	Minimize Program
Changing Scheduler Settings	Browsing system logs
Changing Memory Settings	Full Dome Access
Changing Dome Settings	Program Shutdown
Changing general Prog	Enable or disable video recording
Changing Card Settings	
System Config Tools	
Saving Photos on disk	

4.11 Audio Inputs Configuration

4.11.1 Accessing Audio Input Configuration –

Main Viewer Screen > Click the "Audio Settings" icon



4.11.2 Enable Audio Channel –

Name – Enter a unique name for you're the Audio Channel

Enable – When highlighted, selected audio input channel is enabled

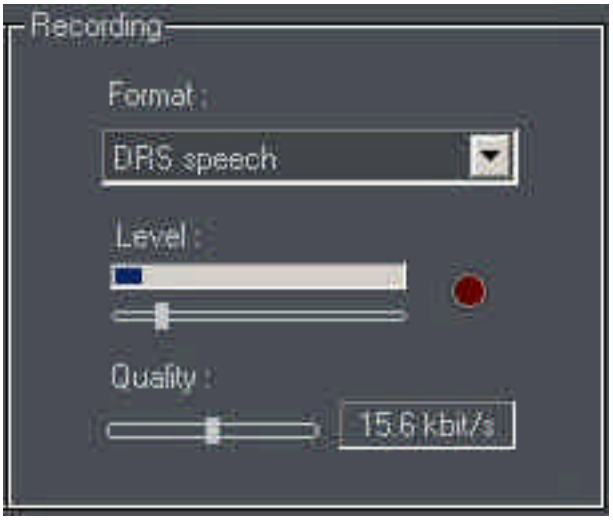
4.11.3 Audio Channel Settings –

Format – Select the format for audio quality

Capture gain – Select the gain for the selected audio channel

Playback Volume – Adjust the playback volume for selected audio channel

4.11.4 Audio Recording Settings –



Format – Select the format for audio recording

Level – The level section has an indicator light, indicator display and slider bar for setting the threshold. When the light is lit, sound is causing audio detection and can be used to trigger events in the scheduler

Quality – Select Audio bandwidth for recording **(higher = better quality)**

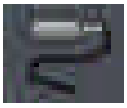
Repeat 4.11.1 - 4.11.4 for each Audio Input

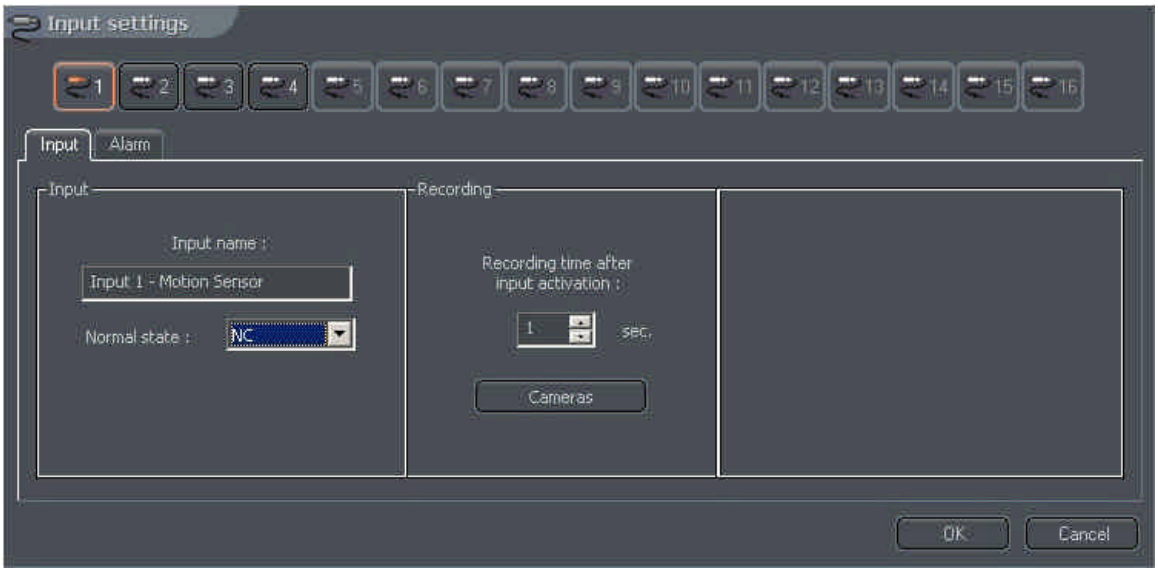
4.12 Input Settings (Optional: Expansion Card Required)

Digital Inputs can be used to integrate your Alnet VDR-S system with an alarm system, or any other input sensors that can be used to trigger recording or send alerts through the VDR-S program. A DI/DO expansion card is required to utilize digital inputs or outputs.

4.12.1 Accessing Input Settings –

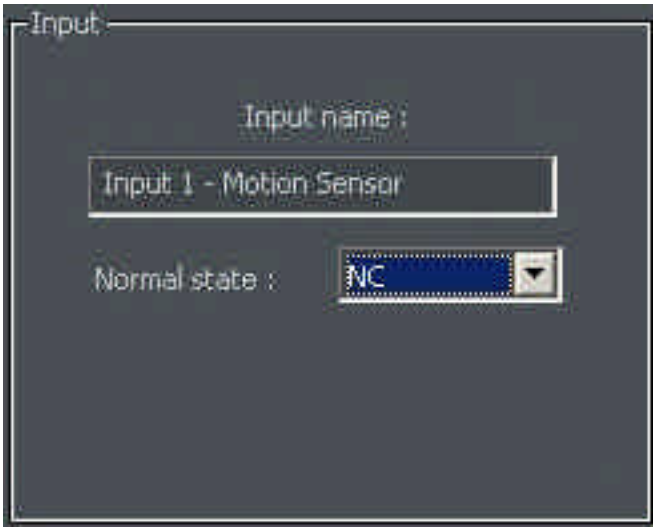
Main Viewer Screen > Click the "Input Settings" icon





4.12.2 Input Configuration –

The Input Configuration Settings will allow you to select the normal configuration of your selected input.



Input name – Type a unique name for your input

Normal State – Select "**NC**" for "**Normally Closed**" circuits and "**NO**" for "**Normally Open**" circuits

4.12.3 Recording Configuration –

The Recording Configuration settings will allow you to select the amount of time and cameras that should record when the input is triggered.

Recording time after input activation – Select the amount of time in seconds that you want the selected cameras to record after this input is triggered.

Cameras – Select each camera that you want to record when this input is triggered

4.12.4 Input Alarm Configuration –

The Alarm Input Configuration settings will allow you to configure which other events you wish to trigger when the selected input is activated.

Play Sound – VDR-S will play a sound file that you select in the Options section

Show Text – A text alert will be shown on the screen or will pop-up when triggered

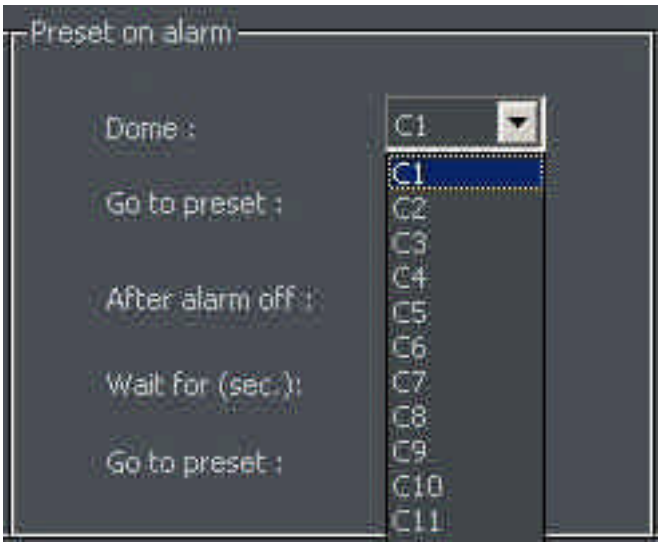
Show Window – Selected camera will enter full-screen mode when input is triggered

Go to preset – Selected PTZ camera can move to a preset location when input is triggered

Invoke alarm after – Specify the amount of time that input should be triggered before setting off the alarms selected above.

4.12.5 Input Dome Control Settings –

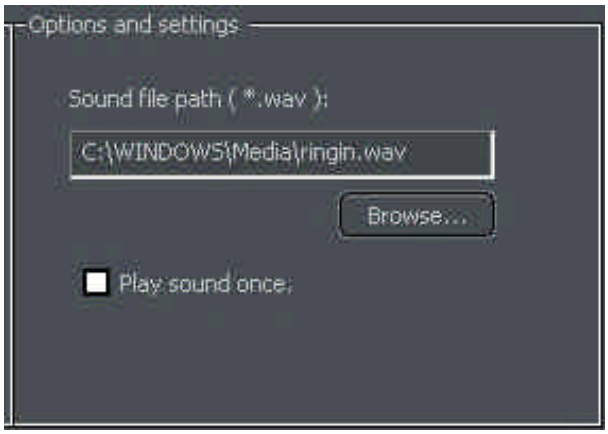
The Input Dome Control Settings will allow you to control a PTZ Dome Camera based on the triggering of your input device. You will be able to select Preset positions and timings to customize the Dome movement to your installation and input. Note: Functioning PTZ Dome Camera is required.



Dome – Select the PTZ dome camera that will be controlled by the alarm on this input
Go to preset – Select the preset position the PTZ dome camera should move to when alarm is set
After alarm off – Select the preset the dome will move back to when input trigger is cleared
Wait for (sec.) – Specify the delay between input trigger clearing and dome moving back to "Go to preset" position
Go to Preset – Select a Preset for PTZ dome camera to return to after "Wait for" period.

4.12.6 Input Options and Settings –

Input Options and Settings will allow you to configure a custom sound file to play when the input device is triggered. You can also specify if the sound should be played only once, or if it should be repeated for as long as the input is triggered.



Sound file path – Select a sound file to play when the alarm is triggered.

Play sound once – Sound file above will continue to play unless this box is checked.

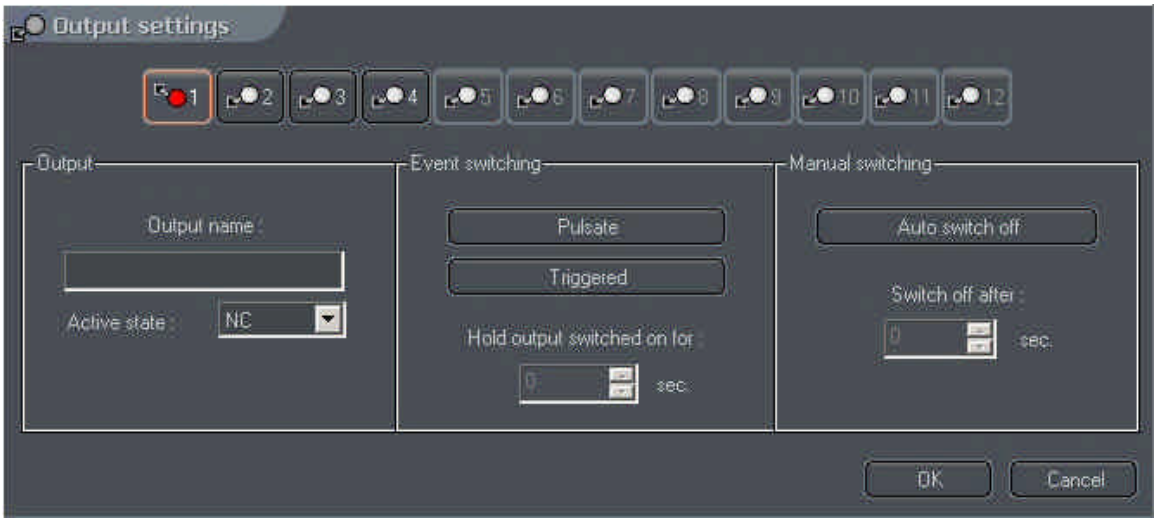
Repeat 4.12.1 – 4.12.6 for each desired input

4.13 Output Settings (Optional: Expansion Card Required)

Digital Outputs can be used to integrate your Alnet VDR-S system with an alarm system, light controllers, HVAC systems, Garage Door Controls, Entry systems and any other low-voltage outputs. Outputs can be controlled from the VDR-S software on the DVR server, the VDR-C client on a remote PC and even from a PDA phone with the VDR-C client for Pocket PC. The VDR-S solution is the next step towards complete integration of your home or business. Output controls require use of an Alnet DI/DO expansion card (optional).

4.13.1 Accessing Output Settings

Main Viewer Screen > Click the "Output Settings" icon



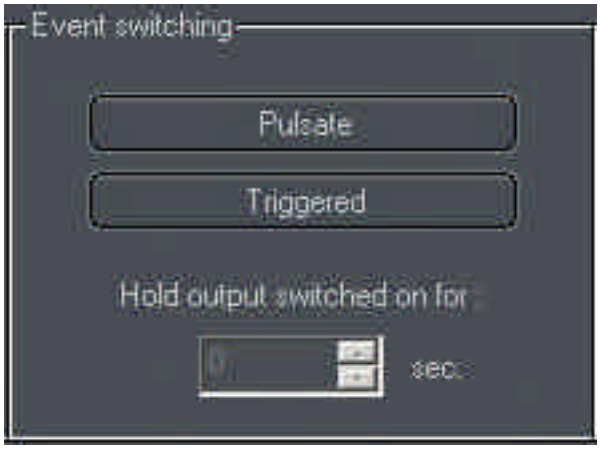
4.13.2 Output Control Settings

Output name – Type in a unique name for this output

Active State – Select "**NO**" for a "**Normally Open**" circuit or "**NC**" for a "**Normally closed**" circuit active state

4.13.3 Event Switching Settings

Event Switching Settings can be used to customize the output style and timing when the output is triggered by an event.



Pulsate – When output is triggered by a system alarm or event, the output will pulsate on and off with this setting

Triggered – When output is triggered by a system alarm or event, the output will be held on for the time specified below

Hold output switched on for – Specify the amount of time to hold triggered outputs on

4.13.4 Manual Switching Settings

Manual Switching settings can be used to customize the output style and timing when the output is triggered manually.

Auto switch off – Specify if you want outputs to automatically return to the "Off" position

Switch off after – Select the time (in seconds) the output should remain active before switching off

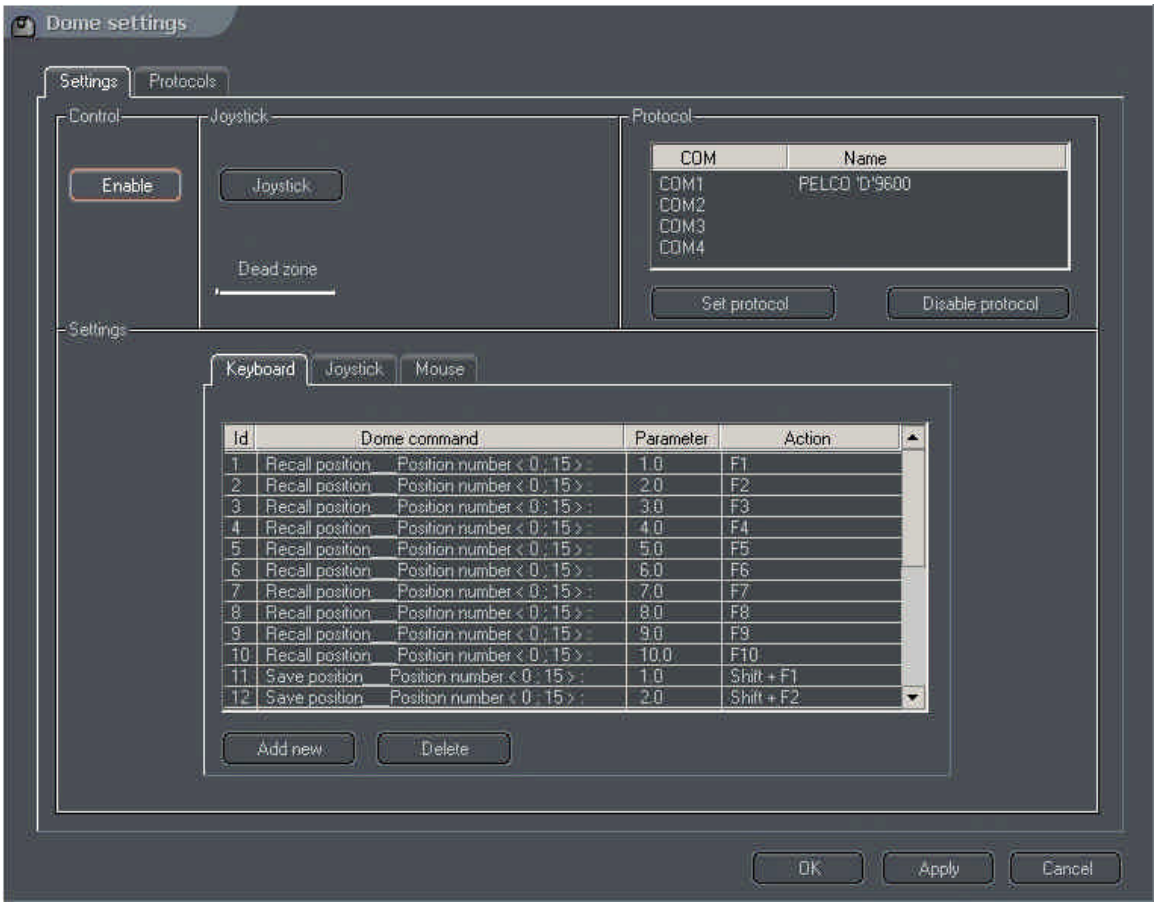
Repeat 4.13.1 – 4.13.4 for each desired output

4.14 PTZ Dome Configuration (Optional: Expansion Card Required)

The PTZ Dome Configuration section will allow you to enable a Protocol, and set control types, to allow control of a PTZ Dome camera with your Alnet VDR-S DVR System.

4.14.1 Accessing PTZ Dome Setup

Main Viewer Screen > Click the "Dome Settings" icon



4.14.2 Enabling PTZ Dome Control

Enable – Click this button to enable PTZ Dome Control

4.14.3 Enabling Joystick Control

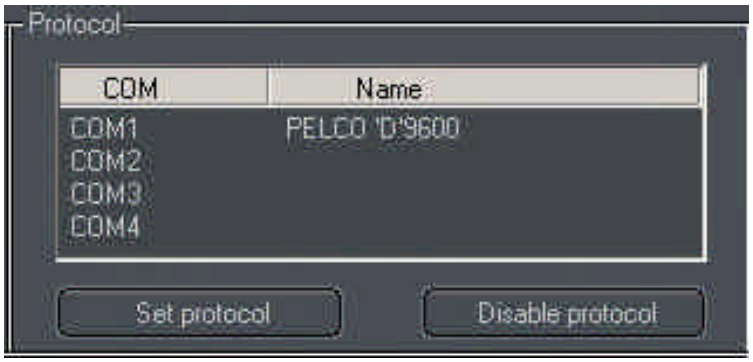
The Alnet VDR-S Software allows for PTZ control using a windows joystick in addition to the keyboard and mouse controls.

Joystick – When highlighted, Joystick controls are active. Alnet VDR-S uses any joystick installed in windows, no separate drivers or configuration is needed.

Dead zone – Set the joystick Dead zone to prevent accidental movement of the dome from minor movements of the joystick.

4.14.4 PTZ Protocol Setup

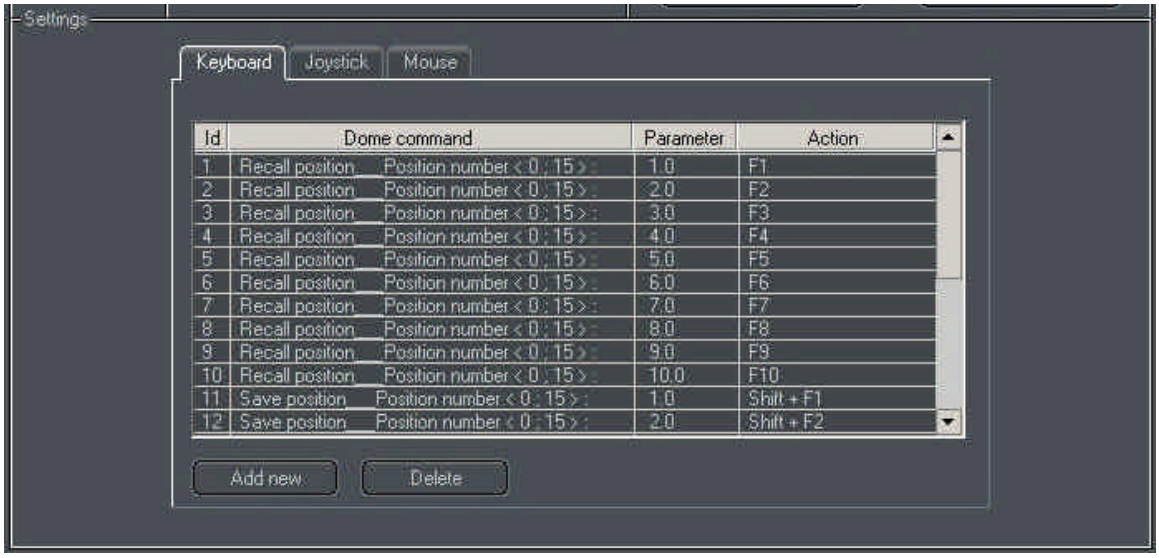
A Protocol is the language that a PTZ-style camera must use to control the movement of the camera. The Alnet software has many built-in protocols for control of many different types of cameras. Make sure to consult the Camera's manual to determine which Protocol to use.



Set Protocol – Select the COM port which is plugged in to your Alnet DI/DO expansion card and choose the protocol of the camera

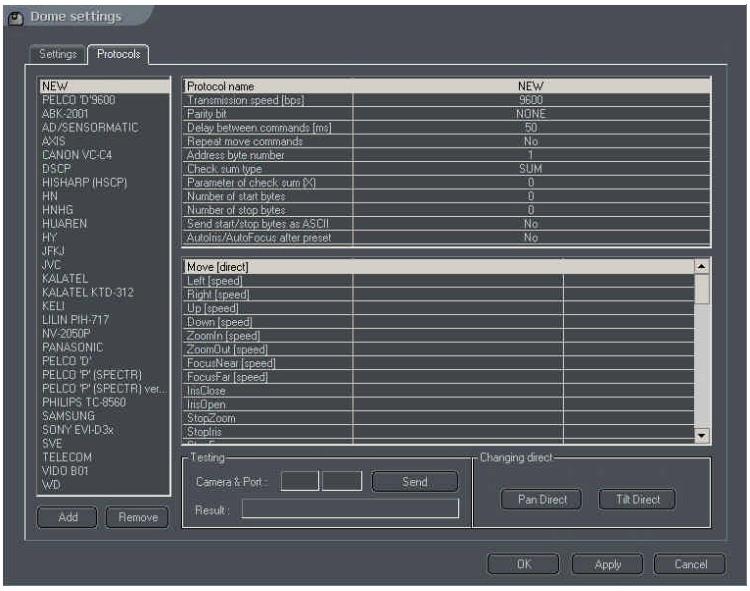
4.14.5 PTZ Keyboard/Mouse/Joystick Settings

In the Keyboard/Joystick/Mouse section, you can reprogram the buttons and keystrokes that will control the PTZ Dome Camera.


Settings
Keyboard
Joystick
Mouse
Id
Dome command
Parameter
Action
1 Recall position Position number < 0 ; 15 > : 1.0 F1
2 Recall position Position number < 0 ; 15 > : 2.0 F2
3 Recall position Position number < 0 ; 15 > : 3.0 F3
4 Recall position Position number < 0 ; 15 > : 4.0 F4
5 Recall position Position number < 0 ; 15 > : 5.0 F5
6 Recall position Position number < 0 ; 15 > : 6.0 F6
7 Recall position Position number < 0 ; 15 > : 7.0 F7
8 Recall position Position number < 0 ; 15 > : 8.0 F8
9 Recall position Position number < 0 ; 15 > : 9.0 F9
10 Recall position Position number < 0 ; 15 > : 10.0 F10
11 Save position Position number < 0 ; 15 > : 1.0 Shift + F1
12 Save position Position number < 0 ; 15 > : 2.0 Shift + F2
Add new
Delete

Setup Keystroke actions for each of the Keyboard, Joystick and Mouse controls. Note: Some of the Default settings "Parameter" may need to be adjusted for your PTZ dome camera.

4.14.6 Advanced PTZ Protocol Settings



For Advanced Users Only

Click the Protocols Tab to edit the PTZ Protocols to match your camera.

Consult with the Mfg. of your Dome camera before editing the protocols

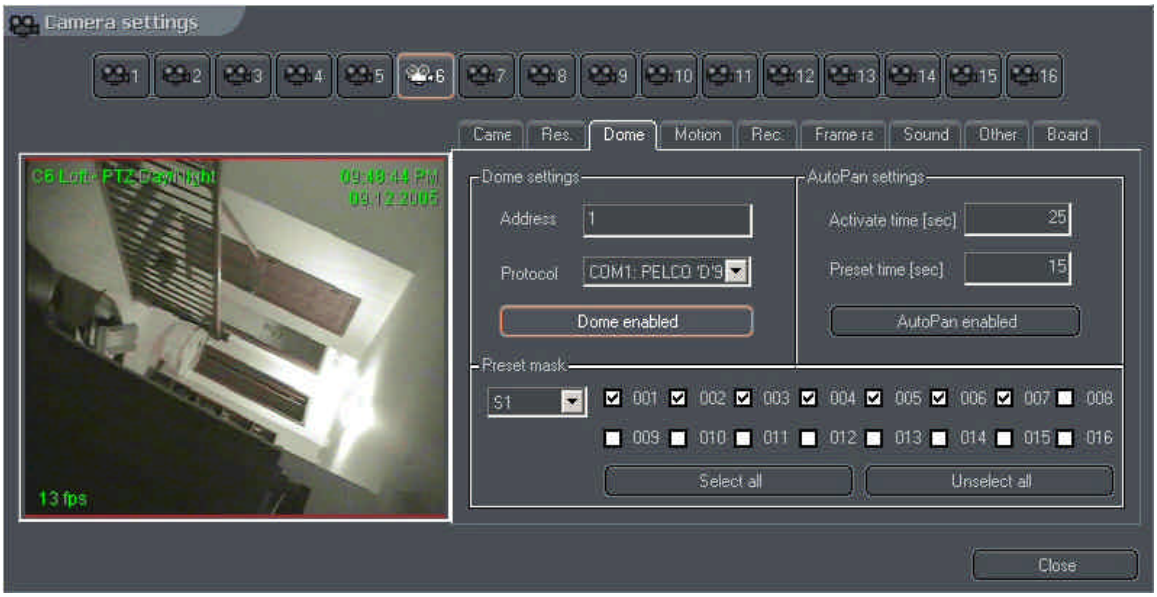
4.15 Camera Dome Controls (Optional: Expansion Card Required)

After Configuring the Main PTZ Dome Protocol and controls, you will now need to return to the Camera Settings, to configure Camera specific PTZ controls.

4.15.1 Accessing PTZ Camera Controls

Main Viewer Screen > Click the "Camera Settings" icon

Click the "Dome" Tab to access Dome Settings



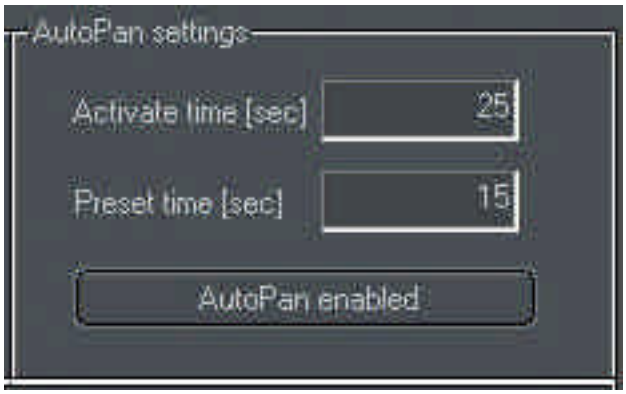
4.15.2 Dome Settings

Address – Enter the Address of your PTZ Dome camera. Most cameras have jumpers or DIP switches to set the address. If the address here does not match the dome, the dome will not move.

Protocol – Select the COM?:Protocol that was set up in previous Dome configuration

Dome Enabled – Click this button to enable PTZ Control for this camera

4.15.3 AutoPan Settings

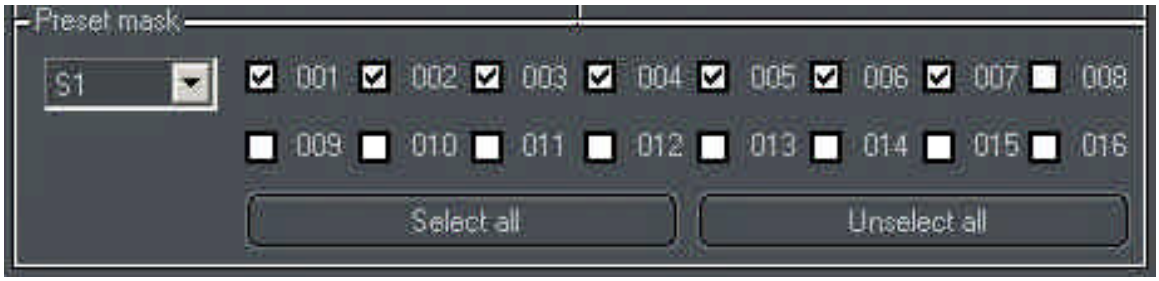


Activate time (sec) – Time after last manual movement that PTZ camera will begin auto-panning if enabled

Preset time – Select the length of time the camera should stay at each preset while auto-panning

AutoPan – Enable AutoPan

4.15.4 Preset Mask



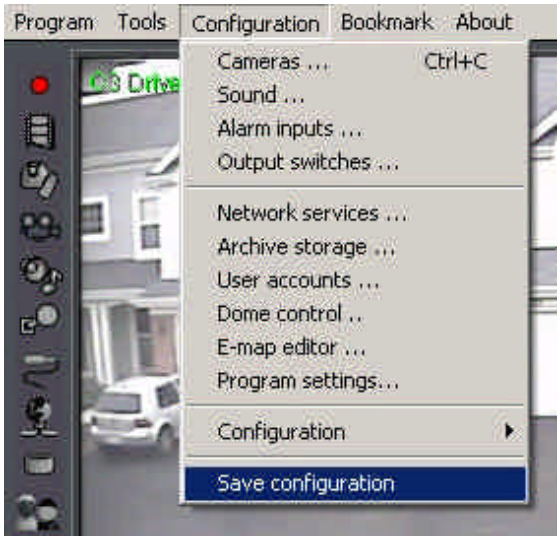
Preset Mask – Select the Preset positions from each group, that you want the camera to auto-pan through. The camera will move through selected presets in sequential order

4.16 Saving your Configuration

Once you have configured the Alnet VDR-S System, you will want to save the configuration. If the PC is shutdown improperly without saving, the configuration changes that you have made would default back to the original settings. It is recommended that you save the configuration file, and then also export it to a text file as a backup.

4.16.1 Saving your Configuration

It is important to save your configuration any time you have made changes to the schedule, camera settings, network settings or layout settings. If you do not save the configuration, all settings will be lost if the PC shuts down or reboots improperly.



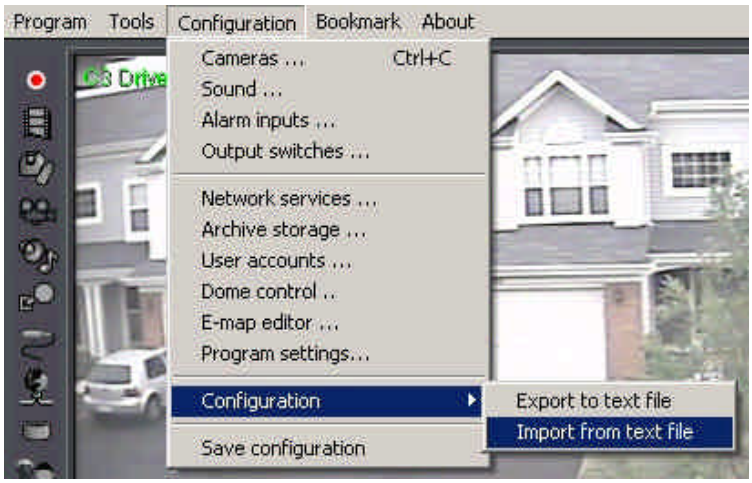
Save Configuration – On the Alnet VDR-S main viewer screen, open the Configuration menu and select "**Save Configuration**" to save all settings to a file.

4.16.2 Exporting your configuration to text file

Exporting your configuration to a text file is a useful tool for archiving past setups, forwarding configuration information on to our service department, or sharing a preconfigured file with multiple DVR Servers for ease of setup.

Export to text file – This option will save all of the settings to a file on the hard drive.

4.16.3 Importing a configuration from a text file



Import from text file – This option will allow you to import settings from a saved configuration file.

5. VDR-S Server Operation

5.1 Main Camera Viewport

Most of your time will be spent in the main camera viewport, viewing live cameras. So it is important to get to know how to customize your environment. In this section, we will discuss how to arrange your cameras in Screen layouts, take snapshots of your cameras, view the event log, automatically rotate between layouts, access menu items, keep an eye on hard drive usage, and watch for system alerts.

5.1.1 Changing Screen Layouts

One of the most common tasks you will perform while in the Main Camera Viewport, is changing the camera layouts. So we will look at this first.

Single Camera

4-Camera

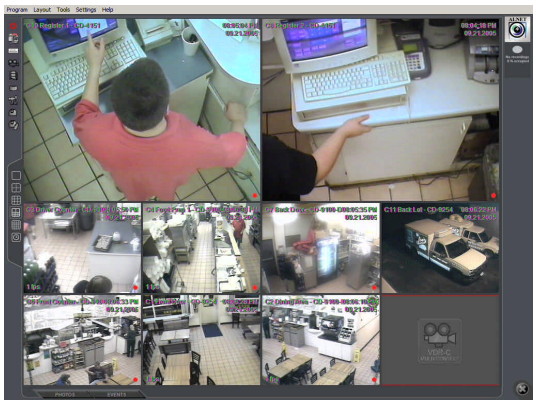
8-Camera

10-Camera

13-Camera

16-Camera

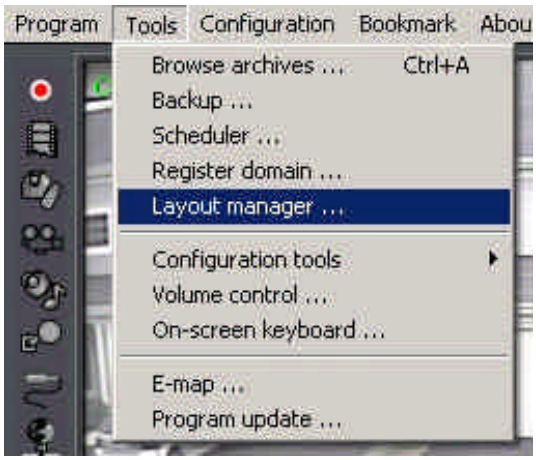
Dynamic Layout – This will begin to cycle through layouts selected in the layout manager



5.1.2 Dynamic Layouts – Using the Layout Manager

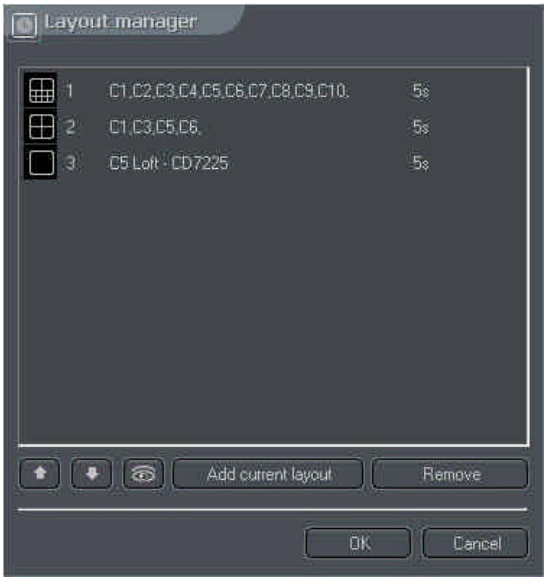
The Layout Manager can be used to set up a Dynamic Layout. A Dynamic Layout is a layout that will change at a specified interval. Using the Dynamic Layout will also automatically switch the camera that is displayed through the analog TV output.

5.1.2.1 Open the Layout Manager



Click “Layout Manager” in the “Tools” menu

5.1.2.2 Add Current Layout to the manager

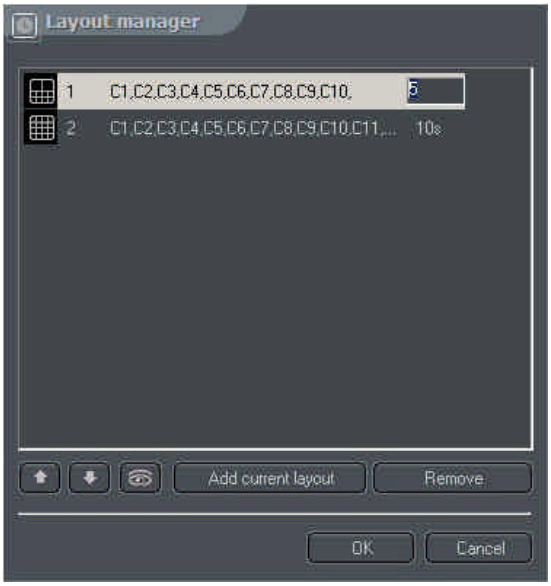


Pressing “Add Current layout” will add the current layout to the list of layouts in the Layout Manager.

5.1.2.3 Changing Layout Order

Use the Up and down arrows in the “Layout Manager” to change the order of layouts.

5.1.2.4 Change Layout Preset Time



Double-Click on the time next to a layout and type in the amount of time (in seconds) that you want the layout to be active for

5.1.2.5 Preview Selected Layout

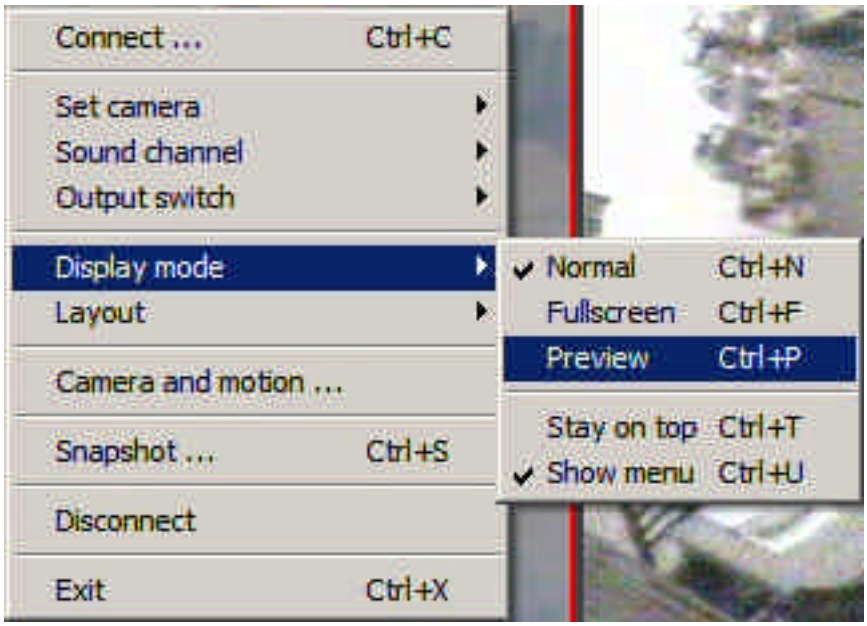
You can preview the selected layout by clicking the preview button.

5.1.2.6 Remove Selected Layout

You can remove a layout from the list by highlighting the layout that you want to remove and clicking “Remove”

5.1.3 Viewing Modes

The Alnet VDR-S system allows you to select from several different viewing modes while viewing cameras. Select between Normal Mode, Preview Mode, Full Screen Mode and Minimize.



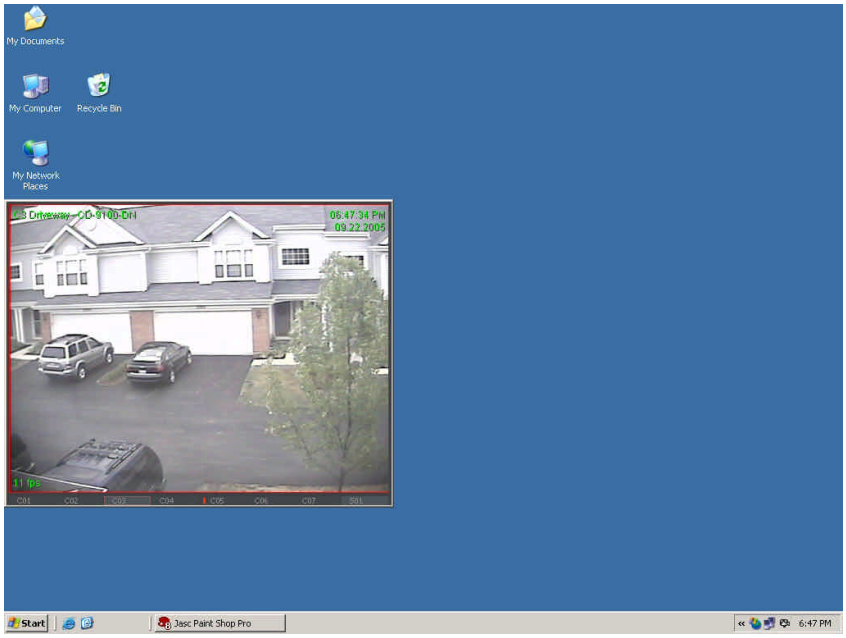
Right-Click anywhere on the main viewport, and select "Display mode" → then select Normal, Fullscreen or Preview

5.1.3.1 Normal Viewing Mode

The Normal Viewing mode is the most versatile setting, it includes easy access to the layout selection, menu, setting menus and task bar.

5.1.3.2 Preview Mode

The Preview mode is excellent for still being able to view the live cameras, while still performing other tasks in windows. The Preview mode can be combined with “Stay on top” which will keep the camera preview on top of all of the other windows.

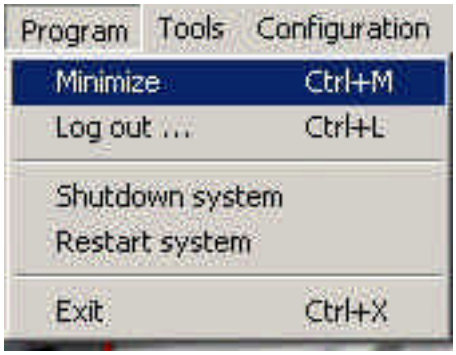


5.1.3.3 Full-Screen Mode

The Full-Screen Viewing mode maximizes the camera viewport sizes on the screen. Access to the menu bar, and other settings have been removed.

5.1.3.4 Minimize

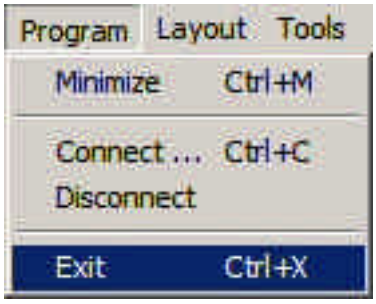
The Camera Viewport can be minimized to allow you to perform other tasks in windows. If the Show Alert on Motion setting is selected in the camera settings, a small balloon will appear when motion is detected on each camera, showing when the motion is detected.



To minimize the program, click the "**Program**" menu, and select "**Minimize**" or press "**Ctrl+M**" to minimize the program and return to Windows

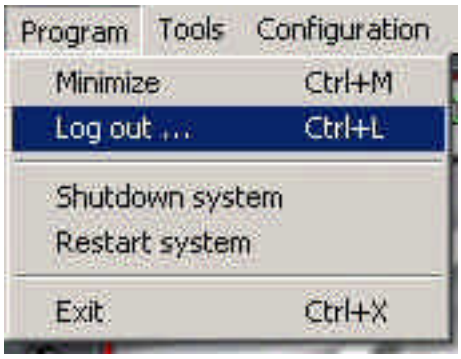
5.1.4 Exiting the Program

Alnet offers several options for exiting the program: Logging out, Exiting the Program and Restarting the PC.



5.1.4.1 Logging Out

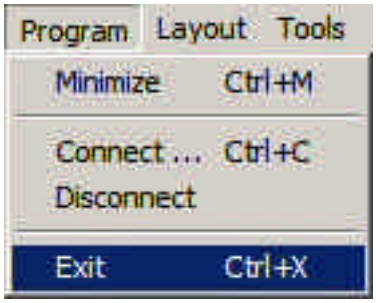
Logging out of the VDR-S System will allow the cameras to continue recording, but will disable the camera live viewing and settings. While logged out, a user must log in before shutting down the program, or viewing cameras.



5.1.4.2 Exiting Program

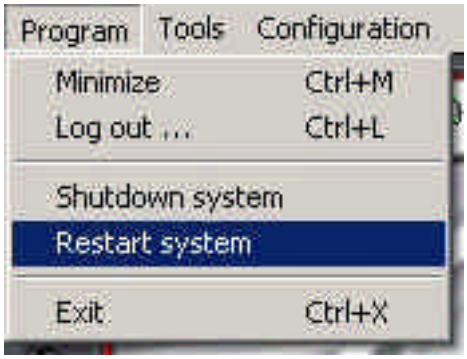
Exiting the program will close all program functions and return to windows. If "System Shell" is enabled in system settings, then Exiting Program will shut down the PC.

Exit the program by pressing the X in the bottom right, or through the program menu at the top



5.1.4.3 Restarting the PC

Restarting the PC will completely shut down all Alnet VDR-S system functions and restart your PC. Alnet VDR-S will restart once windows boots, recording will begin immediately upon restart if scheduled to record, however a user will have to login to view any of the live cameras.



Click on the "**Program**" Menu then select "**Restart PC**" to restart the PC.

5.1.5 Snapshots

Snapshots are a quick and easy way of taking JPG images of live cameras. Photos can be saved as a JPG image and can be easily accessed through the "Photos" section at the bottom of the main viewport or printed directly to your photo printer.

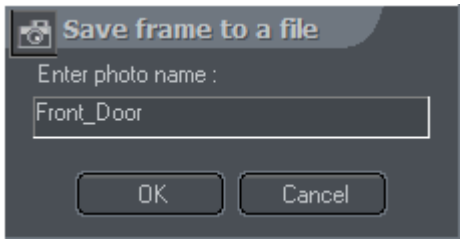
5.1.5.1 Taking a Snapshot

Snapshots can be taken by pressing "Control-S" or right clicking and selecting "Snapshot"

Right-Click on the Camera you would like to save as a snapshot. Select "**Snapshot…**" from the pull-down menu. (Or simply select the camera and press "**Ctrl-S**")

5.1.5.2 Saving the File

Once a snapshot is taken, the snapshot dialog will open to allow you to save the images or print the pictures directly. Click "**Save**" then type a name for the snapshot.



5.1.5.3 Viewing Photos

To view all thumbnails of stored snapshots, click the "Photos" button. Photos can be viewed and printed if desired.

5.1.5.4 Filtering Photos by Date

To view stored snapshots for a specific date range in the Photos Viewer, Select the date on the right side of the Photo Viewer.

Select a date and press the filter button to filter the photos by date

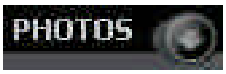
5.1.5.5 Saving or Printing a Photo

To Print a stored Photo snapshot, first select the photo from its thumbnail image, and double click to open the photo viewer. The selected photo will appear in a larger window.

To Print – Click the "**Print**" button at the bottom of the Photo Viewer, then select the printer and photo size to print.
To Save – Click the "**Save**" button at the bottom of the Photo Viewer then select the location you want to save the snapshot in.

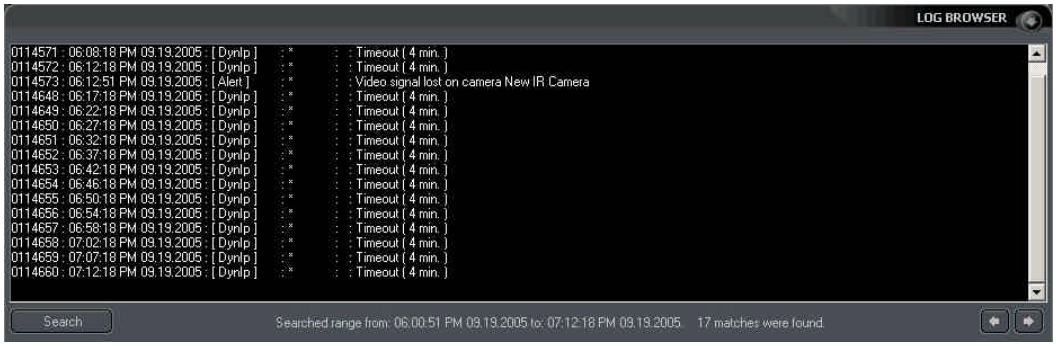
5.1.5.6 Closing Photos Viewer

To close the Photos Viewer, click the down arrow at the top right hand side of the Photos Viewer.



5.1.6 Viewing Event Log

The Event Log in the Alnet VDR-S Software stores every action that occurs on the DVR Server. Viewing the Event log will help to troubleshoot many different problems that you may be experiencing, as well as showing user logins, system setting changes, remote logins, etc.

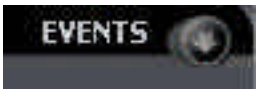


5.1.6.1 Opening the Event Log

The Event Log can be viewed directly in the VDR-S Software by clicking on the "**Log Browser**" Button at the bottom of the screen.

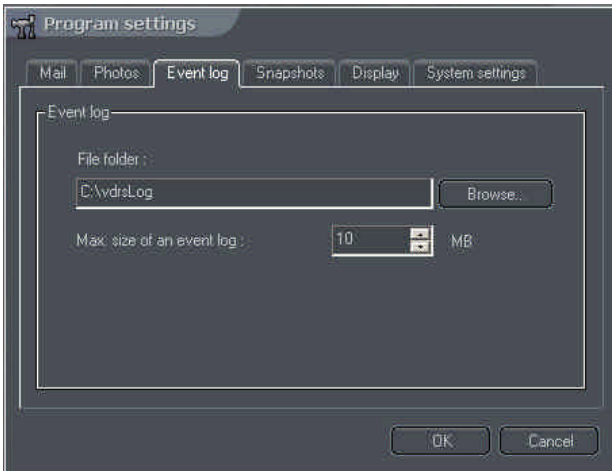
5.1.6.2 Closing the Event Log

To Close the Event Log, click the Down Arrow at the Top Right of the Event Log Screen.



5.1.6.3 Changing the location of the Event Log

The location of the Event log can be changed in the "**Program Settings**" on the "**Event Log**" Tab. Under "**File Folder**" you can see the current location of the Event Logs, or change their location. It will be important to know the location of the Event Log, in order to receive technical support.

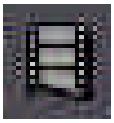


5.2 Archive Playback Mode

The Archive Playback mode will allow you to playback any pre-recorded video that is stored in the archives of your VDR-S DVR Server. Alnet has made reviewing the pre-recorded video very easy by incorporating the use of the Time Bar. The time bar will show all recorded footage from any visible cameras, to show you when your cameras recorded. This is especially helpful in situations where motion detection recording is used. In this section, we will discuss all of the controls and features that are available for use when operating the archives of your VDR-S Server.

5.2.1 Opening Archive Playback Mode

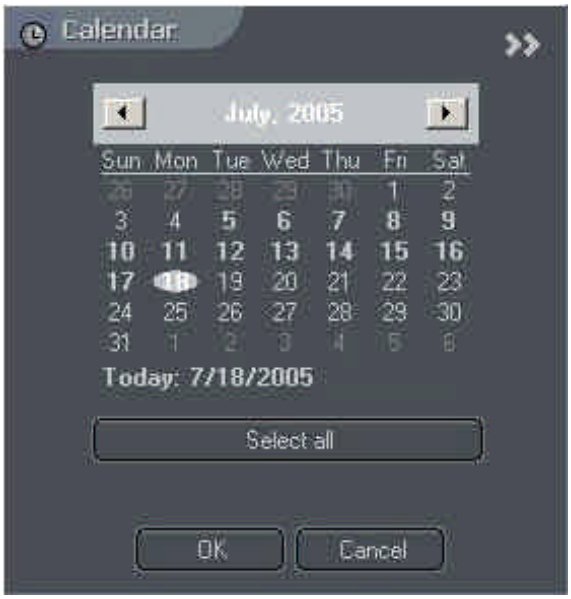
Main Viewer Screen > Click the "Archives" icon



5.2.2 Selecting Day for Playback

The Archive Viewer will default to the current day's video. If you want to view a different day's video archives, you will need to click on the Calendar button.

Archive Viewer Screen > Click the "Calendar" button

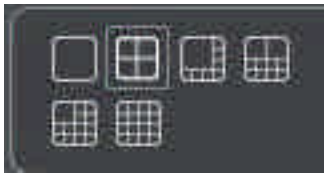


The Calendar will open. Any days that are highlighted in **bold** print are days that have video recordings. Any days that are not in bold have no video recordings for that day.

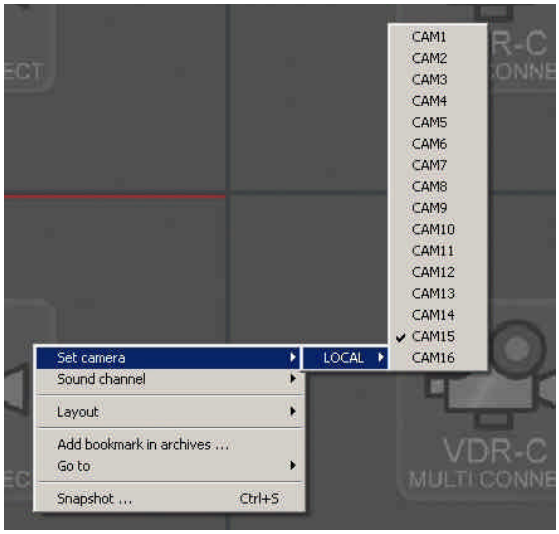
Simply click on the day that you would like to view archives for, and press the "**OK**" button to apply the settings.

5.2.3 Selecting the Camera View

After selecting the day for your archives, you will now want to select the camera view layout. Half-way down on the left hand side, you will find the Layout Selection Icons. Click the Icon for the layout that you want.



Archive Layout Selection – In this area, select the number and layout of cameras to be viewed. With Alnet VDR-S, you will be able to view up to 16 cameras at once during playback.



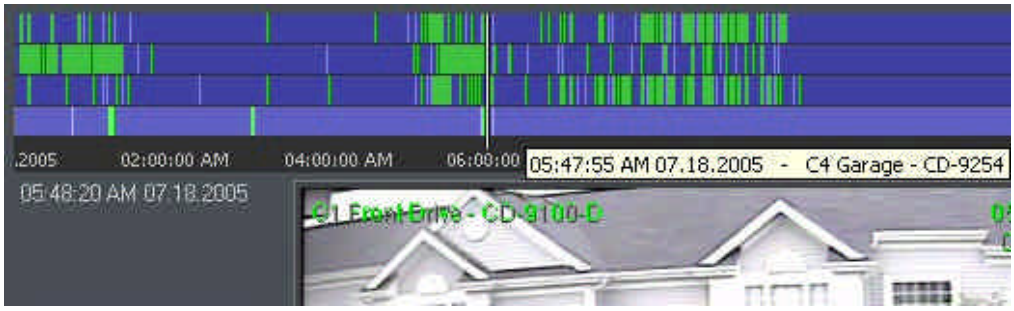
Selecting a Camera for each viewport – After selecting the Archive Viewer Layout, you are also able to select different cameras for each viewport. Right Click on the Camera you want to change, then Select "**Set Camera > {Server Name}**" and click on the camera you want to view.

Note: The time-bar will change to reflect the cameras that are selected.

5.2.4 Selecting the Time for Playback

Selecting the Time for Playback is easier with the Alnet VDR-S Server system than it is with any other DVR System. Simply left click on the time-bar to move the cursor to the time you are currently hovering over with the mouse. You can readjust time at any time by clicking anywhere there is recording on the time-bar.

This is a 4-Camera view of Time Bar. Notice the green lines on the blue background. The Blue background shows time when the camera was not recording. The green bars indicate times when the camera was recording. The thin white line shows the current cursor location.



Hovering over the time bar will open a pop-up showing the time, currently highlighted camera number and currently highlighted camera name.

Currently *selected* time will be shown in the upper left hand side of the Archive Viewport, directly underneath the time bar. If a time has not yet been selected, the time indicator will show "**Cursor not set**".

5.2.5 Playback Controls

Playback controls will allow you to Play, Pause, Fast Forward, Play in Reverse, and move between bookmarks with ease. The Alnet Interface is as easy as using a DVD Player, only more powerful.

Playback controls – The Playback Controls can be found on the right-hand side of the Playback Screen.

Reverse Play – This button will begin playing from the cursor backwards

Pause – This button will Pause a currently playing video clip

Play – This button will begin playing video from the cursor position

Play Increase – This button will increase the playing speed

Fast Forward – This button will play the video at the maximum speed

Step Backwards – Click this button to move back one frame

Step Forward – Click this button to move forward one frame

Audio – Click this button to enable or disable audio playback

Object Search Area – Click this button then drag across screen to set Object search area

Zoom – Click this button then drag across screen to zoom in on selected area

Object Search – Click this button to begin Object Search

Set Bookmark – Click this button to create a bookmark

Previous Bookmark – Click this button to move cursor to previous bookmark

Next Bookmark – Click this button to move cursor to next bookmark

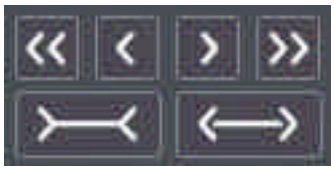
Snapshot – Click this button to take a snapshot of the highlighted camera

Export to AVI – Click this button to Export video visible on time bar to AVI

Settings – Click this button to adjust brightness, Object Search sensitivity, contrast and color

5.2.6 Time Bar Control

Time Bar Controls are used to adjust the time frame displayed in the time bar. This will be used especially for selecting video to export to AVI.



Timebar controls – The Timebar controls are used solely for changing the visible timeframe in the timebar

Move Timebar Left Fast – Click this button to move the timeframe of timebar to the left fast

Move Timebar Left – Click this button to move timeframe of the timebar to the left

Move Timebar Right – Click this button to move timeframe of the timebar to the right

Move Timebar Right Fast – Click this button to move timeframe of timebar to the right fast

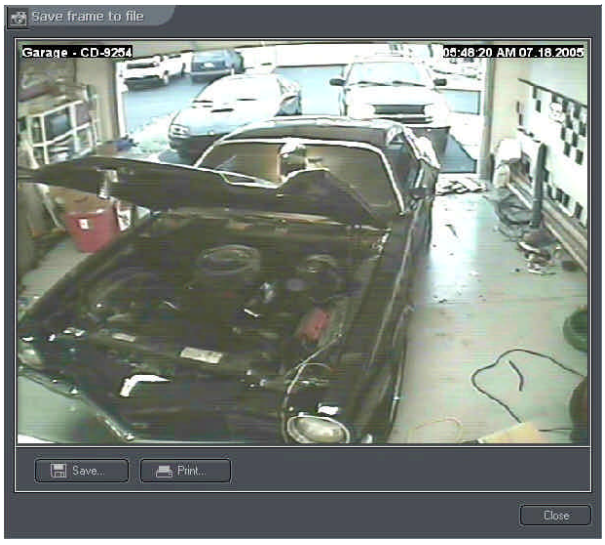
Zoom Timebar In – Click this button to zoom in on the timebar

Zoom Timebar Out – Click this button to zoom timebar out

5.2.7 Taking a Snapshot

Taking a snapshot is useful for saving or printing a frame of archived video. Simply use the Step Forward or Step Backwards to find the frame that you wish to print or save, and press the snapshot button.

Archive Viewer Screen > Click the "Snapshot" icon

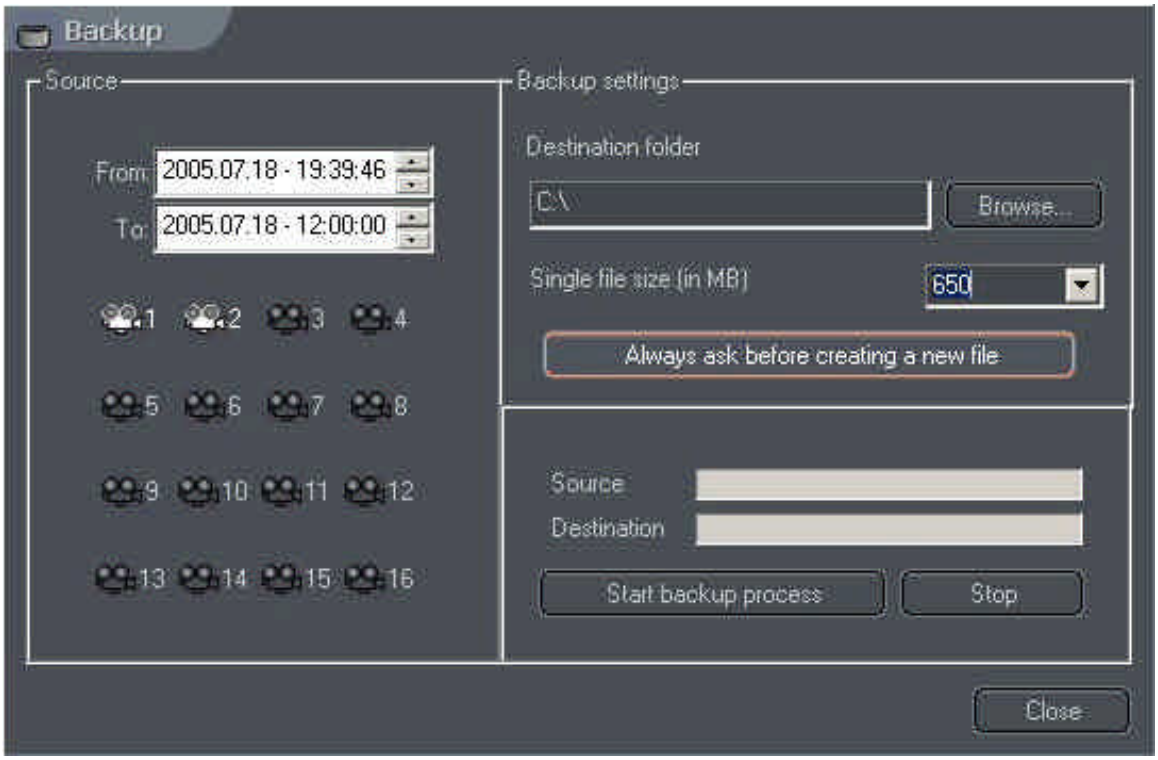


"**Save Frame to File**" window opens up. Press "**Save**" to save the image to file, press "**Print**" to print image.

5.2.8 Backing-Up Archives

Backing up archives is useful for saving pre-recorded footage to a CD or DVD to permanently save the video for one or multiple cameras. Backing up the archive will keep the video in the original Alnet format. This retains all protection and watermarks. Video in this format must be viewed with the Alnet VDR-C Remote Client Software. In this format, the video is easily admissible in court due to the tamper protection of the system.

Archive Viewer Screen > Click the "Backup" button



The Backup window opens to allow configuration of Backup Data.

- Select the Date From and Date To for backing up
- Select the cameras for backup
- Select the Destination Folder

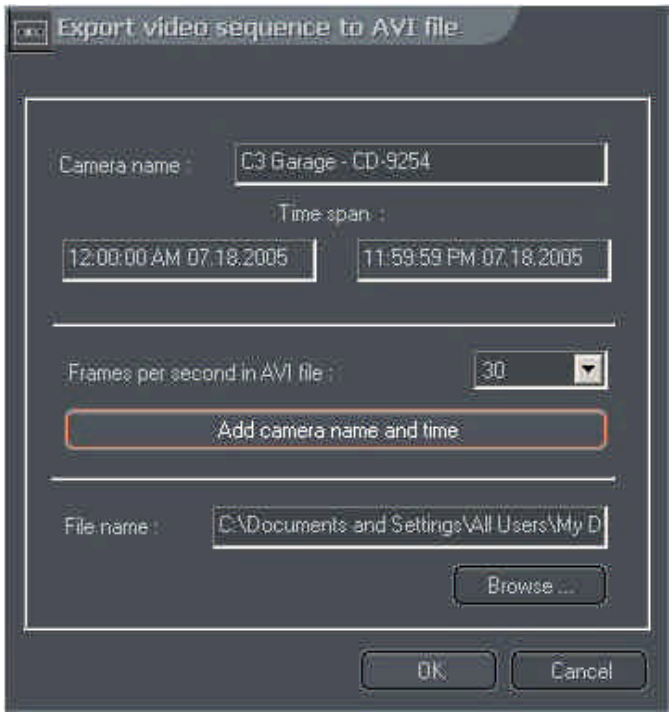
(Note: file must be saved onto hard drive then backed up to CD or DVD later)

- Select the Single file Size (in MB)
- Click "**Start Backup Process**" to begin backup

5.2.9 Saving Selected Video to AVI file

The alternative to backing up the archives, is to save selected video to an AVI file. This exports the video into a format that can be easily viewed on any PC through Windows Media Player. This option will export the timeframe that is visible on the timebar, so use the timebar controls first to zoom in on the appropriate time (for example: if your time bar shows 12:00 AM – 12:00 AM, then clicking the Export to AVI button will create an AVI file of an entire day for the selected camera). If you want only a short video to be exported, then use the Timeframe controls to zoom in on only the time you want to include (for example: 6:30 AM – 6:31 AM).

Archive Viewer Screen > Click the "Video to AVI" Icon



Camera name: This field is filled in for you, based on the camera that is presently selected on the viewer screen.

Time span: Time span is automatically filled in for you, based on the timeframe that is currently visible on the time bar.

Frames per second in AVI file: Select the Frames per second for your AVI file

Add camera name and time: Selecting this option will embed the camera name and time on top of the video in the AVI file

File name: Enter the location to save the file.

Press "OK" to export AVI file.

This box will appear once AVI file has been created successfully.

5.2.10 Adjusting Picture quality

Use the Image Adjustment panel to adjust the picture quality, set Object Search sensitivity, or adjust sharpness. Press "**Close**" to apply settings.

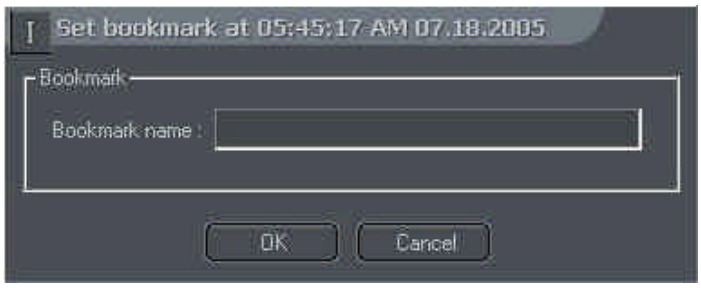
Archive Viewer Screen > Click the "Picture Adjustment" Icon

Use this panel to adjust the image: Object Search Sensitivity, Brightness, Contrast, Saturation and Sharpness (top to bottom)

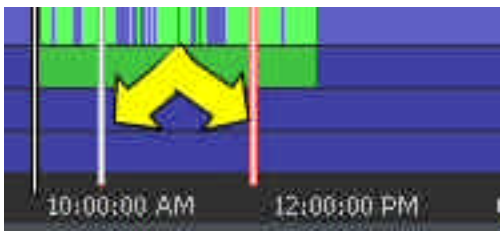
5.2.11 Setting a BookMark

Setting BookMarks will allow you to very quickly review video to find important areas at a later date.

Archive Viewer Screen > Click the "BookMark" Icon



Type in a name for your bookmark, and press "**OK**" to set the bookmark.

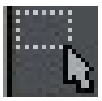


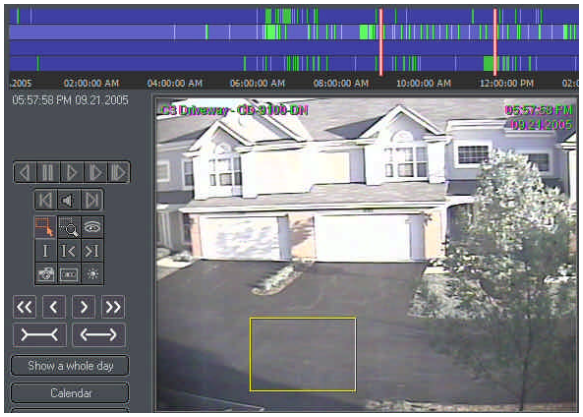
Two Bookmarks are shown by Arrows on the time bar. Hovering over the bookmark will show the name of the bookmark.

5.2.12 Object-Searching

Object-Searching is a revolutionary new option for the Alnet VDR-S system. Object-Searching will allow you to quickly fast-forward to the next time there is motion in a set box. Follow these steps to quickly set up the object search function.

Archive Viewer Screen > Click the "Select Area" Icon

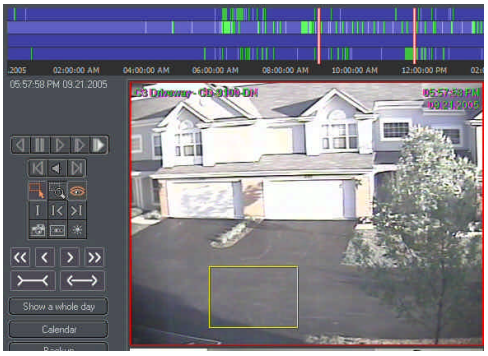




Once you have clicked the "**Select Area**" icon, it will change to a redish color.

Click and Drag across the screen to draw a box around the area you want to search for motion.

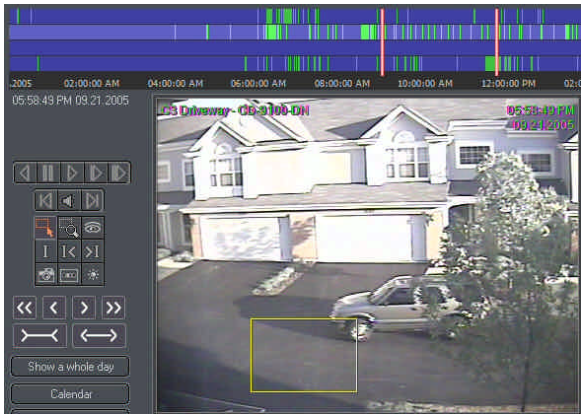
Archive Viewer Screen > Click the "Search" Icon



The Search Icon will now turn Red, and the System will begin searching in Fast Forward.

Once Motion is registered in the Search Area, the Fast Forwarding will stop, so that you can review the motion.

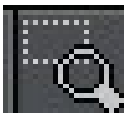
To Begin searching for the next item, click the search button again.

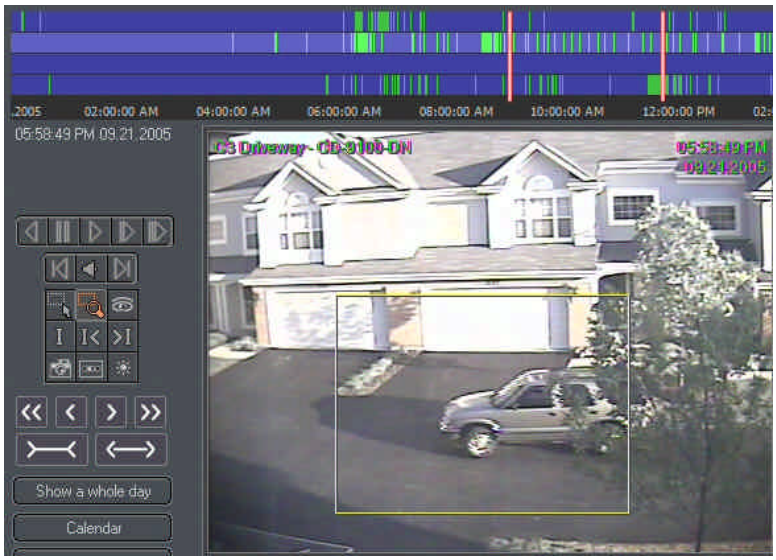


5.2.13 Digital Playback Zoom

Digital Playback Zoom will allow you to zoom in on pre-recorded video digitally to make the images larger and easier to view. This may be helpful to see a bit more than what you normally would see. Note, a Digital Playback Zoom can be performed on any cameras that have been recorded, a PTZ style camera is not required for this type of zoom. Follow these steps to quickly use the Digital Playback Zoom.

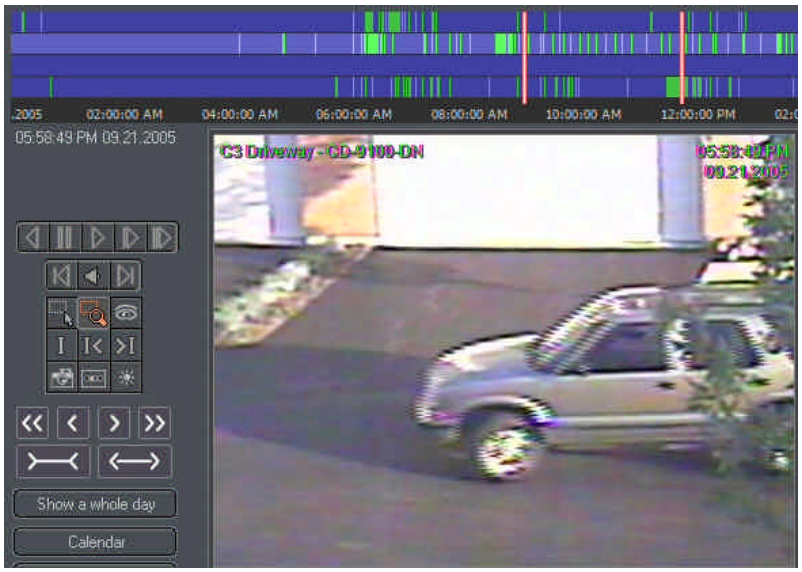
Archive Viewer Screen > Click the "Zoom" Icon





Once the Zoom Icon has been highlighted in red, **Click and Drag** across the area you want to zoom in on.

As soon as you release the left mouse button, the selected area will zoom to the full viewport size.



6. Troubleshooting VDR-S Server

6.1 Installation Problems

In this section, we will discuss common problems during the installation of the Alnet VDR-S software. These problems might range from "Board not Authorized" errors to "Board Not Present" errors, and are usually caused by incomplete or incorrect hardware and driver installation. See specific Causes and Corrections for these Alnet VDR-S installation problems below.

6.1.1 "Board Not Authorized" Error

The "Board Not Authorized" error generally appears during the initial installation/boot-up phase when the DVR Card that is installed does not match the programming of the USB Dongle. This occurs when systems were initially purchased with one card, and are upgrading, or when the dongle is being used from a different system. See the Cause and Correction for this symptom below.

Possible Cause #1: Dongle is programmed for a different DVR Card or Card Combination.

Correction #1:
Use the "Update Dongle" icon in the Start Menu → Programs → Alnet folder. Once the Dongle update program opens, it will check for available updates. You will receive an error message "There are no updates available" Press "Ok" and continue back to the main dongle update screen. Near the top of the window, the Version that the dongle is programmed for will be displayed. Compare the Dongle version to the version on the chart below. If the dongle version does not match the card configuration that is presently installed, contact your retailer for reprogramming.

Part #	D-500	D-500 x 2	D-500 x 3	D-500 x 4	D-700	D-700 x 2	D-600
Version	PR04	PR08	PR012	PR016	RT4	RT8	RT16

Dongle Version Chart

Possible Cause #2: An additional card was installed into the VDR-S PC without programming a dongle

Correction #2:
If the Alnet system was operating properly before installation of the new DVR Card, then remove the newly installed card. Once properly booted into the software, Select "Update Dongle" from the menu. If no updates are available, contact your retailer for updates.

Possible Cause #3: USB Dongle not installed

Correction #3:
If the USB Dongle is not installed, this error will occur on start-up of the software. Check to make sure that the dongle is plugged in to an active USB port. When properly installed, the dongle should light-up. If the dongle is not installed, install into a USB port…the drivers should load automatically.

Possible Cause #4: Serial Number not entered or not correct for the Dongle

Correction #4:
The Registration number for the Alnet VDR-S USB Dongle must be entered. From the Main Viewport, click "About" in the top menus, then select "Enter Registration Number". **See pages 22-24** for information on finding the correct registration number in your software.

6.1.2 "Board Not Present" Error

The "Board Not Present" error generally appears during the initial installation/boot-up phase when the DVR Card is not fully installed in the system. This error will occur if the VDR-S software is installed into a PC that does not have a licensed Alnet VDR-S DVR Board installed, or if the drivers for the DVR Board are not fully loaded into windows. See the Cause and Correction for this symptom below.

Cause #1: DVR Card Hardware not installed but software has been installed

Correction #1:
See Section 2.0 (Page 6) for detailed instructions on the installation of the DVR Card Hardware.

Cause #2: DVR Card Drivers have not yet been fully loaded properly

Correction #2:
First open the Device Manager of your PC (Right Click on "My Computer" – Select "Manage" – Then Click on the Device Manager. Look for a heading called "Unknown Devices" – If there are any unknown devices, then right click on them and select "Reinstall (or Update) Driver". Follow the steps seen **on pg. 20-21** of this manual to complete driver installation

6.2 Initial Start-up Problems

In this section, we will discuss common problems during the initial start-up of the software. These problems are generally caused by settings in the software that need to be adjusted to compensate. If you have gone through the initial setup in the preceding chapters, then find the error message or symptom that best suits your problem in the area below.

6.2.1 "Server Not Found" Error

A "Server Not Found" error is generated by the Auto-Update program, when it is first attempting to access the internet. This is not a serious error and can be ignored. This error message is generated when the Auto-Updater can not locate the update server online. It is usually caused be internet connectivity problems such as: PC is not currently connected to the internet, PC is working on a Dial-up network that is not presently dialed up. Simply ignore this error and press ok to close the dialog box. Continue normal program operation. The Auto-Updater will appear once internet connection has been established.

Cause #1: Computer is not connected to internet on Alnet Startup

Correction #1:
Continue normal operation. The Auto-Updater for the program is showing this error, it will resume normal operation once it can connect to the Alnet Server for auto-updating purposes.

6.2.2 Cameras not visible in Main Viewer

This problem may be shown through Green lines, White lines, or a blurry haze being shown across the screen. This problem is generated by one of two possible causes. See the possible causes and solutions below.

Cause #1: PC Display Adapter does not meet requirements for Hardware rendering

Correction #1:
Set Alnet VDR-S Software to Software rendering mode**. See Pages 46-49** for Display Settings

Cause #1: PC Display Adapter driver is not installed (or using Windows Built-In Drivers)

Correction #1:
Install updated Display Adapter drivers from the manufacturer of your PC's Video Card (Not Alnet DVR Card). If the problem returns, follow steps in Correction #1 above to turn on software rendering mode.

6.2.3 Cameras are visible in Black and White only

This symptom is perfectly normal on the 1st startup into the VDR-S software, or the 1st boot up after the configuration data has been reset in VDR-S. Black and White camera mode is the default setting for the cameras. See the cause and correction below.

Cause #1: Cameras are not set to color mode

Correction #1:
Follow the Camera Setup instructions on **Pages 25-35** to enable Color Mode.

Cause #2: Cameras are set to the wrong Input Type

Correction #2:
Set Cameras to NTSC for US/Japan Cameras or PAL for European Cameras. **See Page 36** for input type settings configuration location.

Cause #3: PC Display Adapter does not meet requirements for Hardware rendering

Correction #3:
Set Alnet VDR-S Software to Software rendering mode. **See Pages 46-49** for Display Settings

Cause #4: PC Display Adapter driver is not installed (or using Windows Built-In Drivers)

Correction #4:
Install updated Display Adapter drivers from the manufacturer of your PC's Video Card (Not Alnet DVR Card). If the problem returns, follow steps in Correction #1 above to turn on software rendering mode.

6.2.4 Alnet VDR-S Logo is present in place of Cameras

The Alnet VDR-S Logo, when displayed in place of the cameras on the DVR Server, shows that the camera that is currently selected is not active in the camera settings. See the Cause and Correction below.

Cause #1: Cameras are not "Connected" in the Software

Correction #1:
"Connect (the) Cameras" in the Camera Settings Menu – **See Page 25**

Cause #2: Cameras are set to the wrong Input Type

Correction #2:
Set Cameras to NTSC for US/Japan Cameras or PAL for European Cameras**. See Page 36** for input type settings configuration location.

Cause #3: PC Display Adapter does not meet requirements for Hardware rendering

Correction #3:
Set Alnet VDR-S Software to Software rendering mode. **See Pages 46-49** for Display Settings

Cause #4: PC Display Adapter driver is not installed (or using Windows Built-In Drivers)

Correction #4:
Install updated Display Adapter drivers from the manufacturer of your PC's Video Card (Not Alnet DVR Card). If the problem returns, follow steps in Correction #1 above to turn on software rendering mode.

6.2.5 Cameras are grainy (too low resolution)

Cameras showing a lower resolution image are usually due to the default camera settings. On initial start-up into the VDR-S Server software resets the configuration data to it's default settings. See the cause and correction for this condition below.

Cause #1: The camera resolution settings are adjusted too low

Correction #1:
See Pages 28 and follow instructions on setting the recording resolution.

Cause #2: Delta Frames or I/P Frames settings are adjusted too low

Correction #2:
Adjust the Delta or I/P Frames settings in the Camera Settings tab for each camera.
See Page 32 and follow instructions for adjustment

6.3 Recording Problems

In this section, we will discuss recording problems that may occur with the Alnet VDR-S system, and corrections for these common problems. Recording problems may vary from Cameras not recording or cameras recording differently than scheduled to recording taking up too much space or recording in a lower resolution.

6.3.1 Cameras are not recording

If cameras are not recording, there are generally only a few possible causes. Either the schedule is not properly configured, Archive storage is not set up properly or the schedule hasn't been activated yet. In this section, we will discuss each possible cause and its correction.

Cause #1: Schedule is not properly configured

Correction #1:
Follow the steps in **Section 4.6 (Pages 50-55)** to configure the schedule properly. Pay close attention to the Dates, Times and cameras selected, as well as the type of recording.

Cause #2: Archives have not yet been configured

Correction #2:
Follow the steps in **Section 4.3 (Page 36)** to configure the Archive location and size for your PC. Once completed, rebuild the archive with fast formatting.

Cause #3: Schedule has not been activated

Correction #3:
After configuring the Archives and the schedule, the schedule needs to be activated. In the Main Camera Viewport, the Icon at the very top on the left under the "Program" menu, should be flashing. If it is not flashing, then click this Icon once to activate schedule. If after clicking the icon, it still does not start flashing, then return to Cause/Correction #2 above for Archive Configuration

6.3.2 Camera Recording is not following Schedule

When cameras are recording, but are not following the schedule that was set-up, generally this means the recording override has been enabled or the schedule was set improperly. In this section, we will discuss each possible cause and correction for this symptom.

Cause #1: Schedule is not properly configured

Correction #1:

Follow the steps in **Section 4.6 (pages 50-55)** to configure the schedule properly. Pay close attention to the Dates, Times and cameras selected, as well as the type of recording.

Cause #3: Schedule OVERRIDE is in effect on the affected cameras

Correction #3:
Change the "Recording" settings on the "Camera Settings" menu. For scheduled recording, the Recording type should be set to "**Disabled**"

6.3.3 Archive fills up too quickly (Not enough days record)

When the recording archive fills up too quickly, there are a multitude of settings that can be adjusted that will help increase the number of days that will successfully record on the archive. In this section we will discuss the possible causes and corrections for this situation, and look at the settings that can be adjusted

Cause #1: Archive is set too small

Correction #1:
Increase the Size of Archive in "Memory Settings" or add another Archive location. **See Section 4.3 (Page 36)** for step by step instructions on setting up Archive locations.

Cause #2: Camera Resolution is set too high for Archive size

Correction #3:
Adjust camera resolution & I/P Frames settings to reduce frame size. Lower frame size = More time recorded on Archive. **See Section 4.2 (Page 28)** for step by step instructions on adjusting camera resolution and **Section 4.2 (Page 32)** for instructions on adjusting camera recording quality.

Cause #3: Hard Drive insufficient size

Correction #3:
Install an additional Hard Disk Drive to gain additional storage space. Consult PC manufacturer for appropriate drive formats and sizes as well as installation instructions.

6.3.4 Recorded video is too grainy

When the recorded video is poor quality, there are several settings that can be adjusted to improve the quality of the recording. Note that adjustments made to improve the recording quality will increase the video size and reduce the number of days that will successfully record on the hard drive. Striking a balance between file size and image quality is important to customize your system to your needs. In this section we will review the settings that will correct the grainy recording condition.

Cause #1: The camera resolution settings are adjusted too low

Correction #1:
See Page 28 and follow instructions on setting the recording resolution.

Cause #2: Delta Frames or I/P Frames settings are adjusted too low

Correction #2:
Adjust the Delta or I/P Frames settings in the Camera Settings tab for each camera.
See Page 32 and follow instructions for adjustment

6.4 Remote Connection Problems

In this section, we will discuss the possible problems that may occur when attempting to connect to a VDR-S server from a remote client PC. These problems may be caused by software settings, hardware connection issues, or network firewall settings. We will explore some possible solutions for these situations.

6.4.1 "Cannot Connect to Server" Error

The "Cannot Connect to Server" error when trying to connect in from a remote PC can be caused by many different conditions. In this section, we will review the possible causes and corrections of this condition.

Cause #1: Username and Password Incorrect

Correction #1:
Double-check the Username and Password that is used to login. The Username & Password are both CaSe SeNSiTivE!

Cause #2: Server is not set up to accept incoming connections

Correction #2:
Configure the Network Settings of the Alnet VDR-S Server software to accept incoming connections under the "Video Tab". **See Section 4.4 (Pages 37-45)** for details and instructions on this configuration.

Cause #3: Proper ports have not been forwarded to your VDR-S Server in the Router or DSL/Cable Modem

Correction #3:
Consult the documentation for your DSL/Cable Modem or Router and forward ports to your VDR-S Server's Internal IP Address.

Cause #4: Windows XP SP2 Firewall is blocking connection

Correction #4:
Configure Windows XP SP2 Firewall exceptions to include TCP and UDP for ports 8999 through 9003 to accept all incoming connections on the VDR-S Server

Cause #5: Firewall Software is blocking VDR-S Server software from accessing the internet or being accessed from the internet

Correction #5:
Configure Firewall software to allow inbound and outbound traffic on ports 8999-9003 to and from your VDR-S Server PC.

Cause #6: Incorrect Internet IP Address being used to access your VDR-S Server or Dynamic IP Address has changed.

Correction #6:
Check your internet IP Address at **http://whatismyip.com** or configure Alnet VDR-S Dynamic IP registration. View settings for Dynamic IP Registration in **Section 4.4 (Pages 37-45)**

Cause #7: Client or Server Internet connection is presently down

Correction #7:
Repair or connect to internet, then reconnect client with server.

6.4.2 "Connection was Forcefully Rejected"

The "Cannot Connect to Server" error when trying to connect in from a remote PC can be caused by many different conditions. In this section, we will review the possible causes and corrections of this condition.

Cause #1: Username and Password Incorrect

Correction #1:
Double-check the Username and Password that is used to login. The Username & Password are both CaSe SeNSiTivE!

6.4.3 "Connection attempt failed because the connected party did not properly respond after a period of time"

This error occurs when attempting to connect to a VDR-S server from a Remote PC. There may be many different causes for this error.
See Troubleshooting steps in section 6.4.1 for resolution of this problem.

6.4.4 Camera Resolution too Low (Grainy) from Remote PC

On a remote PC, the camera resolution adjusts independently of the main resolution and quality settings on the server. This feature was built-in to the VDR-C software, to accommodate lower-speed connection settings. In this section, we will review the VDR-C remote client software on the Remote PC to correct this problem.

Cause #1: VDR-C Client Delta Frames or I/P Frames settings are adjusted too low

Correction #1:
See VDR-C Manual for Remote Camera Quality adjustments.

6.4.5 Framerate too Low

Low framerate on remote connection may be caused by many different variables. In this section, we will explore the possible causes and corrections.

Cause #1: VDR-C Client Delta frame-rate adjusted too low

Correction #1:
See VDR-C Manual for Remote Frame-rate adjustments.

Cause #2: VDR-C Client Delta Frames or I/P Frames settings are adjusted too high for current camera quality settings

Correction #2:
See VDR-C Manual for Remote Camera Quality adjustments to reduce quality of image for better frame rate.

Cause #3: Internet connection Upload (Server) or Download (Client) Speeds are insufficient for high speed video transfer.

Correction #3:
Improve Internet connection speed (Consult your ISP or Network Admin) or reduce camera quality settings to compensate (See Cause #2 above)

6.5 PTZ Camera Problems

PTZ camera problems might stem from hardware connection issues, software settings, or physical settings on the PTZ camera. In this section, we will review the possible PTZ Camera problems that might occur.

6.5.1 PTZ Camera will not move

After connection of a PTZ Camera, when the PTZ Camera will not move by any means (keyboard, mouse, joystick, or remote panel), the PTZ setup or hardware setup are the most probable cause. In this section, we will explore the troubleshooting of PTZ-Style cameras.

Cause #1: PTZ Camera does not have power

Correction #1:
Connect Power adapter of correct voltage and polarity to PTZ Camera

Cause #2: PTZ Protocol is not configured in Dome Settings

Correction #2:
Configure PTZ Protocol settings to match your PTZ Camera's Protocol. Some PTZ Cameras have multiple protocols, consult with the manufacturer's PTZ instructions to determine which PTZ Protocol should be used.

Cause #3: Dome Settings PTZ Data Speed does not match PTZ Camera Speed

Correction #3:
The transmission speed (Baud Rate) must match the transmission speed of the PTZ Camera. A mis-matched setting will cause the PTZ Camera not to move. Consult PTZ Camera Manufacturer's Manual for correct Baud Setting, **See Section 4.14 (Pages 72-74)** of this manual for software configuration.

Cause #4: PTZ Camera Address does not match Address specified in "Dome Settings" for the camera

Correction #4:
Double check PTZ Camera jumper settings for address. There are 1024 possible camera addresses. You will have to consult PTZ manual to determine what address your camera is set to. Once the Camera's address is found, configure the "Dome Settings" for that camera in the VDR-S software. **See Section 4.15 (Pages 75-76)** of this manual for software settings.

Cause #5: RS-232 (Serial) to RS-485 adapter has not been plugged in to the Alnet CONEXT0404 optional expansion card.

Correction #5:
Connection RS-232 Connection Cable to the CONEXT0404 Alnet Expansion card. **Consult Section 2.5 (Pages 13-14)** for instructions on connection

Cause #6: RS-485 connection between camera and Alnet CONEXT card is reverse polarity

Correction #6:
Some cameras accidentally reverse the transmission polarity of the RS-485 connector. Swap RS-485 + with RS-485 - . Retest PTZ operation.

Cause #7: RS-485 connection not complete or high resistance

Correction #7:
Check RS-485 connections for excessive resistance or open circuit conditions using an Ohmmeter. Repair any open circuit conditions or high-resistance connections. When possible, substitute known-good wiring.

6.5.2 Keyboard does not control camera

When the PTZ camera moves with the "remote control" on screen, but does not operate when using the keyboard controls, the keyboard control settings are at fault. In this section, we will review the possible correction for this symptom.

Cause #1: Sensitivity setting "Parameters" is out of adjustment

Correction #1:
The Sensitivity settings for the keyboard section of the Dome Control default to "0". When set to "0" for the parameters of each function, the dome will not move with the keyboard. Adjust each parameter to suit your sensitivity needs and re-test.

6.5.3 Mouse does not control camera

When the PTZ camera moves with some controls, but does not operate with the mouse controls, the mouse control settings are at fault. In this section, we will review the possible correction for this symptom.

Cause #1: Not holding down "Ctrl" while moving mouse

Correction #1:
You must hold down the "Ctrl" key while moving the mouse if you want the PTZ Camera to move.

Cause #2: Sensitivity setting "Parameters" is out of adjustment

Correction #2:
The sensitivity settings can be adjusted in the Dome Settings area of the VDR-S Software. Double-click on the parameter of the mouse settings tab, and adjust the sensitivity (parameter) higher or lower as needed.

6.5.4 Joystick does not control camera

When the PTZ camera moves with some controls, but does not operate with the joystick controls, the joystick control settings are at fault. In this section, we will review the possible correction for this symptom.

Cause #1: Joystick is not installed properly or is not enabled in VDR-S

Correction #1:
The Joystick must be installed and functioning in windows before it can be used by the VDR-S software. Use the Windows Control Panel to test the functionality of the Joystick with windows, then re-check with the VDR-S software. Also, ensure that the "Joystick" selection is enabled in the "Dome Control" panel of the VDR-S software.

Cause #2: Sensitivity setting "Parameters" is out of adjustment

Correction #2:
The sensitivity settings can be adjusted in the Dome Settings area of the VDR-S Software. Double-click on the parameter of the mouse settings tab, and adjust the sensitivity (parameter) higher or lower as needed.

6.5.5 Remote Control panel does not control camera

If the PTZ Camera does not operate with the Remote Control Panel, then the PTZ Camera is not operating at all. The PTZ Remote Control Panel is the Master control for the PTZ camera, if it is not functioning, then **Review Section 6.5.1**

6.6 User Account Setup Problems

6.6.1 Cannot log in with newly created user account

Occasionally, user account configuration settings may limit a user from logging in to the VDR-S server software. In this section, we will discuss the possible causes and corrections for this situation.

Cause #1: User is logging in during a time that account is restricted

Correction #1:
Check "Time Restrictions" in the User Account Setup. **View Section 4.10 (Pages 61-64)** of this manual for tips on setting Time Restrictions on User Accounts.

Cause #2: On initial Account Creation, the User account was set up with no login hours applied

Correction #2:
User account must be deleted and re-created to allow Login hours. Login hours cannot be added to an account that was set up with blank login hours without deleting the User Account and Creating a New User.

6.6.2 User cannot access one or more specific features

When a user account can log-in to certain functions, but cannot operate with other features, such as PTZ Control, Archive playback, viewing specific cameras, or more; the user account settings are the most likely cause. In this section, we will explore the possible causes and corrections for user access problems.

Cause #1: User has not been given "Rights" to change settings in that feature

Correction #1:
Log in as an Administrator, then change User Rights assignments to include the omitted features. **Consult Section 4.10 (Pages 61-64)** of this manual for instructions on how to configure user rights.

6.6.3 User can log-in from one PC but not from another

One of the most perplexing problems that a user may experience is the ability to log in from one remote location but not from another. Fortunately, this is an easy problem to rectify. In this section, we will discuss the correction of this problem.

Cause #1: An IP Filter has been applied in the User Setup Configuration

Correction #1:
Remote IP Filtering for user to allow for connection to the server from another PC. **Consult Section 4.10 (Pages 61-64)** of this manual for information on setting up or removing an IP Filter.